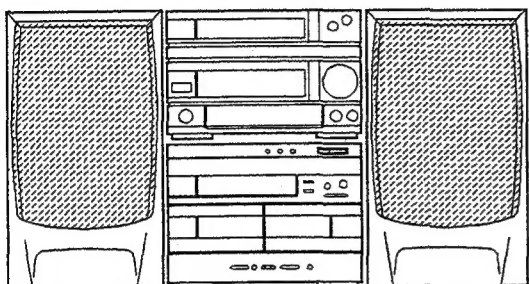


# aiwa



## CUD-DN858



STEREO RECEIVER  
COMPACT DISC/CASSETTE PLAYER

- BASIC TAPE MECHANISM: 2ZM-3PR2N
- BASIC CD MECHANISM: KSM-2101ABM

- TYPE: HE,LH,HK,HR,E,K,U,EZ

SYSTEM	AMPLIFIER/ TUNER	CASSETTE DECK/ CD PLAYER	REMOTE CONTROLLER	SPEAKER
CUD-DN858 (TYPE: HE,LH,HK,HR)	RX-N858	FD-N858	RC-T502	SX-N858
(TYPE: E,K,U,EZ)	RX-N858	FD-N858	RC-T502	SX-N858

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# SPECIFICATIONS

## TUNER / AMPLIFIER -> RX-N858

### <FM section>

**Frequency range** 87.5 MHz to 108 MHz  
**Usable sensitivity (IHF)** HE,HR,HK,U,LH : 13.2 dBf (75 ohms, 1.2µV)  
 EE,K,EZ : 19.2 dBf (75 ohms, 2.5µV)  
**Antenna** 75 ohms (unbalanced)

### <AM section>

**Frequency range** 531 kHz to 1602 kHz (9 kHz step)  
 530 kHz to 1710 kHz (10 kHz step)  
**Usable sensitivity** 400 µV/m  
**Antenna** Loop antenna

### <MW section> (EE,K,EZ)

**Frequency range** 531 kHz to 1602 kHz (9 kHz step)  
 530 kHz to 1710 kHz (10 kHz step)  
**Usable sensitivity** 400 µV/m  
**Antenna** Loop antenna

### <LW section> (EE,K,EZ)

**Frequency range** 144 kHz to 290 kHz  
**Usable sensitivity** 1000 µV/m  
**Antenna** Loop antenna

### <Amplifier section>

**Power output**  
 Front :  
 HR : Rated 45 W + 45 W  
 (6 ohms, T.H.D. 1%, 1kHz)  
 Reference 60 W + 60 W  
 (6 ohms, T.H.D. 10%, 1kHz)  
 HE,LH,HK :  
 60 W + 60 W  
 (6 ohms, T.H.D. 10%, 1kHz)  
 EE,K,EZ:  
 Rated 50 W + 50 W  
 (6 ohms, T.H.D. 1%, 1kHz/DIN 45500)  
 Reference 65 W + 65 W  
 (6 ohms, T.H.D. 10%, 1kHz/DIN 45324)  
 DIN MUSIC POWER 110W + 110W  
 U :  
 50watts per channel minimum RMS,  
 both channels driven at 6 ohms  
 Rear :  
 HR : Rated 7.5 W + 7.5 W  
 (16 ohms, T.H.D. 1%, 1kHz)  
 Reference 10 W + 10 W  
 (16 ohms, T.H.D. 10%, 1kHz)  
 HE,LH,HK :  
 10 W + 10 W  
 (16 ohms, T.H.D. 10%, 1kHz)  
 EE,K,EZ :  
 DIN MUSIC POWER 17.5W + 17.5W  
 U :  
 7.5watts per channel minimum RMS,  
 both channels driven at 16 ohms  
 Center :  
 HR : Rated 15 W  
 (8 ohms, T.H.D. 1%, 1kHz)  
 Reference 20 W  
 (8 ohms, T.H.D. 10%, 1kHz)  
 HE,LH,HK :  
 20 W (8 ohms, T.H.D. 10%, 1kHz)  
 EE,K,EZ:  
 DIN MUSIC POWER 35W  
 U :  
 15watts minimum RMS, at 16 ohms  
 From 65Hz to 15000hz with no more  
 than 1% total harmonic distortion.  
**Harmonic distortion** 0.1% (25 W, 1 kHz, 6 ohms)

## CASSETTE DECK/CD PLAYER -> FD - N858

### <Cassette deck section>

**Track format** 4 tracks, 2 channels  
**Frequency response** Metal tape : 20 – 17000 Hz  
 CrO<sub>2</sub> tape : 20 – 16000 Hz  
 Normal tape : 20 – 15000 Hz  
**Signal-to-noise ratio** 73 dB (DOLBY C NR ON, metal  
 tape peak level above 5kHz)  
**Wow and flutter** 0.12% (WRMS)  
**Recording system** AC bias  
**Heads** DECK 1 : Playback head x 1  
 DECK 2 : Recording/playback/  
 erasure head x 1

### <CD player section>

**Laser** Semiconductor laser (λ = 780 nm)  
**D-A conversion** 1-bit dual  
**Wow and flutter** Unmeasurable  
**Signal-to-noise ratio** 90 dB (1 kHz)  
**Harmonic distortion** 0.03% (1 kHz)


## SPEAKER SYSTEM - SX - N858

### <Speaker system>

**Cabinet type** 3 way, bass reflex (magnetism  
 sealed type)  
**Speaker** 140 mm (5<sup>5</sup>/<sub>8</sub> in.) cone type woofer  
 60 mm (2<sup>3</sup>/<sub>8</sub> in.) cone type tweeter  
 20 mm (1<sup>3</sup>/<sub>16</sub> in.) ceramic type  
 super tweeter  
**Impedance** 6 ohms  
**Output sound pressure level** 87 dB/W/m  
 230 x 396 x 275 mm  
**Dimensions (W x H x D)** (9<sup>1</sup>/<sub>8</sub> x 15<sup>5</sup>/<sub>8</sub> x 10<sup>7</sup>/<sub>8</sub> in.)  
**Weight** 4.4 kg (9 lbs. 11oz)

### <Common section>

**Outputs** Speakers : accept speakers of 6  
 ohms or more  
 Center speaker : accept speakers  
 of 8 ohms or more  
 Surround speaker : accept speakers  
 of 16 ohms or more  
**Inputs** Super woofer : 1.5V  
 VIDEO 1/DAT : 300mV (47kohms  
 with volume)  
 VIDEO 2/AUX : 500mV (47kohms  
 with volume)  
**Power requirements** HE,HR,LH,HK : AC 120V/ 220V-  
 230V/ 240 V, switchable, 50/60 Hz  
 EE,K,EZ : AC 230 V, 50 Hz  
 U : 120V AC, 60 Hz  
**Power consumption**  
 (System total) HE,LH,HK :  
 120 W (system total 140 W)  
 HR : 140 W (system total 165 W)  
 EE,K,EZ : 280 W  
 (system total 310 W)  
 U : 125 W (system total 140 W)  
**Dimensions (W x H x D)** RX-N858 :  
 260 x 198 x 330.5 mm  
 (10<sup>1</sup>/<sub>4</sub> x 7<sup>7</sup>/<sub>8</sub> x 13 in.)  
 FD-N858 :  
 260 x 198 x 328 mm  
 (10<sup>1</sup>/<sub>4</sub> x 7<sup>7</sup>/<sub>8</sub> x 13 in.)  
**Weight** RX-N858 : 7.0 kg (15 lbs. 7 oz)  
 FD-N858 : 4.5 kg (9 lbs. 15 oz)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.  
 "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

MODEL NO.

RX-N858

## ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				87-020-339-089			C-DIODE,1SS226<<K,EE,EEZ,EZ>
	85-NT1-613-010	IC,CXP82532-123Q		87-017-097-089			ZENER,HZS6B1
	82-NE6-617-019	IC,GPIU581X		87-017-121-089			ZENER,HZS11A1
	87-002-950-019	IC,BA3826S		87-001-913-089			ZENER,UTZJ5.6B
	87-002-412-080	IC,SN74HCOONS		87-001-912-089			ZENER,UTZJ 5.1B
	87-001-607-089	IC,NJM4558M					
	87-017-375-089	IC,TC4094BF		MAIN C.B			
	87-017-726-089	IC,BU4052 BCF		81-653-648-119			ANT TERM EARTH PAL<K,EE,EEZ,EZ>
	87-001-582-019	IC,STK4152-2		81-653-638-019			ANT TERMINAL EARTH<HE,LH,HK,U,HR>
	87-017-449-010	IC,XR-1071CP		C109	87-016-476-099		CAP,E 4700-42 (105)<EXCEPT U>
	87-070-249-040	IC,NJU7305M		C110	87-016-457-099		CAP,E 4700-42
				C111	87-010-101-089		CAP,E 220-16 SME
	87-070-229-049	IC,M5229FP					
	87-017-915-089	IC,BU4094BCF		C112	87-016-130-089		ELECT CAP 47-25 KME<EXCEPT U>
	87-017-296-189	IC,LA1831M		C113	87-010-263-089		CAP,E 100-10
	87-017-885-010	IC,NJM2177AF		C114	87-015-914-089		CAP,E 47-100
	87-001-927-089	IC,LC7218M		C115	87-010-247-089		CAP,E 100-50 SME
				C116	87-010-247-089		CAP,E 100-50 SME
	87-070-205-019	IC,TC9299P					
	87-002-872-080	IC,MC14053 BF		C117	87-010-400-089		CAP,E 0.47-50 SME
	87-070-184-040	IC,M65846FP-600D		C118	87-010-401-089		CAP,E 1-50 SME
	87-070-283-040	IC,NJM2121M		C119	87-010-544-089		CAP,E 0.1-50
TRANSISTOR				C120	87-010-235-089		CAP,E 470-16 SME
	89-420-052-089	TR,2SD2005Q (T105)		C121	87-010-480-089		CAP,E 220-16 105 KME<HE,LH,HK>
	87-026-235-089	C-TR,DTC114EK		C121	87-010-101-089		CAP,E 220-16 SME<EXCEPT HE,LH,HK>
	89-112-965-089	TR,2SA1296GR		C122	87-010-374-089		CAP,E 47-10
	89-327-125-089	C-TR,2SC2712GR		C123	87-010-374-089		CAP,E 47-10
	89-111-625-089	C-TR,2SA1162GR		C124	87-016-130-089		ELECT CAP 47-25 KME
				C126	87-012-140-089		C-CAP,S 470P-50 CH
	89-213-702-019	TR,2SB1370E					
	89-332-665-089	TR,2SC3266GR		C127	87-016-110-099		CAP,E 5600-25SME
	89-110-155-089	TR,2SA1015GR		C128	87-010-374-089		CAP,E 47-10<HE,LH,HK,U>
	87-026-462-089	TR,2SC1740S (RS)		C128	87-016-130-089		ELECT CAP 47-25 KME<K,EE,EEZ,EZ,HR>
	89-318-155-089	TR,2SC1815GR		C129	87-010-404-089		CAP,E 4.7-50 SME
				C131	87-018-131-089		CAP,TC-U 1000P-50 B
	87-026-227-089	C-TR,DTA114EK					
	89-333-266-089	C-TR,2SC3326B		C132	87-018-209-089		CAP,TC-U 0.1-50 F
	89-113-187-889	TR,2SA1318 TU		C151	87-016-539-099		CAP,E 3300-35 SMG
	89-333-317-889	TR,2SC3331 TU		C152	87-016-538-099		CAP,E 3300-35 KME<EXCEPT U>
	89-503-602-089	C-FET,2SK360E		C153	87-012-368-089		C-CAP S 0.1-50F
				C154	87-012-368-089		C-CAP S 0.1-50F
	89-327-143-089	C-TR,2SC2714 (O)					
	87-026-233-089	TR,DTA114TK		C155	87-012-368-089		C-CAP S 0.1-50F<K,EE,EEZ,EZ>
	89-502-094-089	C-FET,2SK 209Y		C156	87-012-368-089		C-CAP S 0.1-50F<K,EE,EEZ,EZ>
	87-026-229-089	C-TR,DTA143XK		C201	87-010-401-089		CAP,E 1-50 SME
	87-026-230-089	C-TR,DTA114YK<EXCEPT HE,LH,HK>		C202	87-010-401-089		CAP,E 1-50 SME
				C203	87-010-401-089		CAP,E 1-50 SME
	87-026-224-089	C-TR,DTC143XK<EXCEPT HE,LH,HK>					
	87-026-213-089	C-TR,DTC114YK<EXCEPT HE,LH,HK>		C204	87-010-401-089		CAP,E 1-50 SME
DIODE				C205	87-010-403-089		CAP,E 3.3-50 SME
	87-020-691-089	DIODE,1SS132 T-72		C206	87-010-403-089		CAP,E 3.3-50 SME
	87-001-911-089	ZENER,UTZJ4.7A (TAPG)		C207	87-010-380-089		CAP,E 47-16 SME
	87-001-290-089	ZENER,HZS6B1L		C208	87-010-380-089		CAP,E 47-16 SME
	87-017-101-089	ZENER HZS6C2					
	87-002-430-089	ZENER,UTZJ8.2C		C209	87-010-401-089		CAP,E 1-50 SME
				C210	87-010-401-089		CAP,E 1-50 SME
	87-002-225-019	DIODE DBF 40C-K10		C211	87-010-402-089		CAP,E 2.2-50 SME
	87-020-125-089	C-DIODE,1SS181		C212	87-010-402-089		CAP,E 2.2-50 SME
	87-020-027-089	C-DIODE,1SS184		C213	87-010-402-089		CAP,E 2.2-50 SME
	87-020-285-019	DIODE DBA30C-K12					
	87-001-574-089	DIODE 1SR139-200 T31		C214	87-010-402-089		CAP,E 2.2-50 SME
				C215	87-010-178-089		C-CAP,S 1000P-50 B
	87-002-743-089	ZENER,MTZJ 33B		C216	87-010-178-089		C-CAP,S 1000P-50 B
	87-001-916-089	ZENER,UTZJ10B		C217	87-010-400-089		CAP,E 0.47-50 SME<EXCEPT U>
	87-027-405-089	ZENER,RD2.2EB		C218	87-010-400-089		CAP,E 0.47-50 SME<EXCEPT U>
	87-001-915-089	ZENER,UTZJ6.8A					
	87-026-360-089	C-VARICAP,KV1430		C219	87-010-405-089		CAP,E 10-50 SME
				C220	87-010-405-089		CAP,E 10-50 SME
				C221	87-010-374-089		CAP,E 47-10
				C222	87-010-374-089		CAP,E 47-10
				C223	87-010-315-089		C-CAP,S 27P-50 CH
				C224	87-010-315-089		C-CAP,S 27P-50 CH



REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C225	87-010-260-089		CAP,E 47-25 SME	C419	87-010-197-089		C-CAP,S 0.01-25 B
C226	87-010-260-089		CAP,E 47-25 SME	C422	87-010-149-089		C-CAP,S 5P-50 CH
C229	87-016-247-089		C-CAP,0.1-50 F	C423	87-010-400-089		CAP,E 0.47-50 SME
C230	87-016-247-089		C-CAP,0.1-50 F	C451	87-010-316-089		C-CAP,S 33P-50 CH<K,EE,EEZ,EZ>
C231	87-010-184-089		C-CAP,S 3300P-50 B<K,EE,EEZ,EZ>	C452	87-010-197-089		C-CAP,S 0.01-25 B
C232	87-010-184-089		C-CAP,S 3300P-50 B<K,EE,EEZ,EZ>	C453	87-015-691-089		CAP,E 0.1-50 7L
C233	87-010-196-089		C-CAP,S 0.1-25 F<K,EE,EEZ,EZ>	C454	87-010-154-089		C-CAP,S 10P-50 CH<HE,LH,HK,U,HK>
C234	87-010-196-089		C-CAP,S 0.1-25 F<K,EE,EEZ,EZ>	C454	87-010-314-089		C-CAP,S 22P-50 CH<K,EE,EEZ,EZ>
C235	87-010-405-089		CAP,E 10-50 SME	C455	87-012-140-089		C-CAP,S 470P-50 CH<K,EE,EEZ,EZ>
C236	87-010-197-089		C-CAP,S 0.01-25 B	C456	87-012-155-089		C-CAP,S 180P-50 CH<K,EE,EEZ,EZ>
C237	87-010-197-089		C-CAP,S 0.01-25 B	C457	87-010-175-089		C-CAP,S 560P-50 SL<K,EE,EEZ,EZ>
C238	87-010-197-089		C-CAP,S 0.01-25 B<K,EE,EEZ,EZ>	C458	87-010-197-089		C-CAP,S 0.01-25 B<K,EE,EEZ,EZ>
C239	87-010-197-089		C-CAP,S 0.01-25 B	C459	87-010-197-089		C-CAP,S 0.01-25 B<K,EE,EEZ,EZ>
C241	87-010-178-089		C-CAP,S 1000P-50 B	C460	87-010-197-089		C-CAP,S 0.01-25 B
C242	87-010-178-089		C-CAP,S 1000P-50 B	C471	87-010-197-089		C-CAP,S 0.01-25 B
C246	87-010-406-089		CAP,E 22-50 SME	C472	87-010-197-089		C-CAP,S 0.01-25 B<EXCEPT U>
C247	87-010-406-089		CAP,E 22-50 SME	C473	87-010-197-089		C-CAP,S 0.01-25 B
C248	87-016-148-089		CAP,E 47-50KME<EXCEPT U>	C474	87-010-197-089		C-CAP,S 0.01-25 B
C249	87-010-198-089		C-CAP,S 0.022-25 B	C475	87-015-785-089		C-CAP,0.1-25 F<HE,LH,HK,U,HR>
C250	87-010-196-089		C-CAP,S 0.1-25 F<K,EE,EEZ,EZ>	C475	87-010-452-089		C-CAP,1-16P<K,EE,EEZ,EZ>
C251	87-010-197-089		C-CAP,S 0.01-25 B	C477	87-010-197-089		C-CAP,S 0.01-25 B
C253	87-018-134-089		CAP,TC-U 0.01-16 Y	C479	87-015-819-089		CHIP CAP 0.01
C264	87-010-178-089		C-CAP,S 1000P-50 B	C482	87-018-134-089		CAP,TC-U 0.01-16 Y<K,EE,EEZ,EZ>
C301	87-010-405-089		CAP,E 10-50 SME	C501	87-010-197-089		C-CAP,S 0.01-25 B
C302	87-010-405-089		CAP,E 10-50 SME	C502	87-010-197-089		C-CAP,S 0.01-25 B
C303	87-010-405-089		CAP,E 10-50 SME	C503	87-010-405-089		CAP,E 10-50 SME
C304	87-010-405-089		CAP,E 10-50 SME	C504	87-010-194-089		C-CAP,S 0.047-25 F
C305	87-010-182-089		C-CAP,S 2200P-50 B	C505	87-010-401-089		CAP,E 1-50 SME
C307	87-010-182-089		C-CAP,S 2200P-50 B	C506	87-010-402-089		CAP,E 2.2-50 SME
C309	87-010-189-089		C-CAP,S 8200P-50 B	C507	87-010-178-089		C-CAP,S 1000P-50 B
C311	87-010-189-089		C-CAP,S 8200P-50 B	C508	87-010-314-089		C-CAP,S 22P-50 CH
C313	87-010-189-089		C-CAP,S 8200P-50 B	C509	87-010-403-089		CAP,E 3.3-50 SME
C315	87-010-186-089		C-CAP,S 4700P-50 B	C510	87-010-405-089		CAP,E 10-50 SME
C316	87-010-186-089		C-CAP,S 4700P-50 B	C511	87-010-194-089		C-CAP,S 0.047-25 F
C317	87-010-186-089		C-CAP,S 4700P-50 B	C512	87-010-213-089		C-CAP,S 0.015-50 B
C318	87-010-186-089		C-CAP,S 4700P-50 B	C513	87-010-178-089		C-CAP,S 1000P-50 B<HE,LH,HK,U,HR>
C321	87-010-322-089		C-CAP,S 100P-50 CH	C513	87-012-157-089		C-CAP,S 330P-50 CH<K,EE,EEZ,EZ>
C322	87-010-322-089		C-CAP,S 100P-50 CH	C514	87-010-401-089		CAP,E 1-50 SME
C323	87-010-404-089		CAP,E 4.7-50 SME	C515	87-010-426-089		C-CAP,S 0.012-25 B<EXCEPT LH,U>
C324	87-010-404-089		CAP,E 4.7-50 SME	C515	87-010-220-089		C-CAP,S 0.018-25 B<LH,U>
C325	87-010-405-089		CAP,E 10-50 SME	C516	87-010-426-089		C-CAP,S 0.012-25 B<EXCEPT LH,U>
C326	87-010-405-089		CAP,E 10-50 SME	C516	87-010-220-089		C-CAP,S 0.018-25 B<LH,U>
C327	87-010-405-089		CAP,E 10-50 SME	C517	87-010-401-089		CAP,E 1-50 SME
C328	87-010-405-089		CAP,E 10-50 SME	C518	87-010-263-089		CAP,E 100-10
C329	87-010-401-089		CAP,E 1-50 SME	C519	87-010-194-089		C-CAP,S 0.047-25 F
C330	87-010-401-089		CAP,E 1-50 SME	C520	87-010-403-089		CAP,E 3.3-50 SME
C331	87-010-405-089		CAP,E 10-50 SME	C521	87-010-403-089		CAP,E 3.3-50 SME
C332	87-010-405-089		CAP,E 10-50 SME	C525	87-010-197-089		C-CAP,S 0.01-25 B
C333	87-010-263-089		CAP,E 100-10	C541	87-010-197-089		C-CAP,S 0.01-25 B<HE,LH,HK,U,HR>
C334	87-010-263-089		CAP,E 100-10	C551	87-010-186-089		C-CAP,S 4700P-50 B
C335	87-010-197-089		C-CAP,S 0.01-25 B	C552	87-010-400-089		CAP,E 0.47-50 SME
C401	87-010-312-089		C-CAP,S 15P-50 CH	C553	87-010-384-089		CAP,E 100-25 SME
C403	87-010-197-089		C-CAP,S 0.01-25 B	C554	87-010-315-089		C-CAP,S 27P-50 CH
C404	87-010-197-089		C-CAP,S 0.01-25 B	C555	87-010-263-089		CAP,E 100-10
C405	87-010-312-089		C-CAP,S 15P-50 CH	C556	87-010-197-089		C-CAP,S 0.01-25 B
C406	87-010-313-089		C-CAP,S 18P-50 CH<K,EE,EEZ,EZ>	C557	87-010-178-089		C-CAP,S 1000P-50 B
C407	87-010-146-089		C-CAP,S 2P-50 CH<K,EE,EEZ,EZ>	C558	87-010-178-089		C-CAP,S 1000P-50 B
C407	87-010-147-089		C-CAP,S 3P-50 CH<HE,LH,HK,U,HR>	C559	87-010-178-089		C-CAP,S 1000P-50 B
C408	87-010-145-089		C-CAP,S 1P-50 CH<HE,LH,HK,U,HR>	C560	87-010-178-089		C-CAP,S 1000P-50 B
C408	87-010-147-089		C-CAP,S 3P-50 CH<K,EE,EEZ,EZ>	C564	87-010-314-089		C-CAP,S 22P-50 CH
C409	87-010-314-089		C-CAP,S 22P-50 CH	C571	87-010-179-089		C-CAP,S 1200P-50 B<K,EE,EEZ,EZ>
C410	87-010-154-089		C-CAP,S 10P-50 CH	C572	87-010-403-089		CAP,E 3.3-50 SME<K,EE,EEZ,EZ>
C411	87-010-312-089		C-CAP,S 15P-50 CH	C601	87-010-263-089		CAP,E 100-10
C412	87-010-312-089		C-CAP,S 15P-50 CH	C602	87-010-263-089		CAP,E 100-10
C413	87-010-197-089		C-CAP,S 0.01-25 B	C603	87-010-260-089		CAP,E 47-25 SME
C414	87-010-146-089		C-CAP,S 2P-50 CH	C604	87-010-263-089		CAP,E 100-10
C415	87-010-147-089		C-CAP,S 3P-50 CH<K,EE,EEZ,EZ>	C605	87-010-401-089		CAP,E 1-50 SME
C416	87-010-154-089		C-CAP,S 10P-50 CH	C606	87-010-401-089		CAP,E 1-50 SME
C417	87-010-197-089		C-CAP,S 0.01-25 B	C607	87-010-182-089		C-CAP,S 2200P-50 B
C418	87-012-156-089		C-CAP,S220P CH	C608	87-010-182-089		C-CAP,S 2200P-50 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C609	87-010-184-089		C-CAP,S 3300P-50 B	L602	81-631-643-019		COIL 1 POLE MPX
C610	87-010-184-089		C-CAP,S 3300P-50 B	L901	87-003-102-089		COIL,10UH<K,EE,EEZ,EZ>
C851	87-010-260-089		CAP,E 47-25 SME<EXCEPT LH,HE,HK>	L902	87-003-102-089		COIL,10UH<K,EE,EEZ,EZ>
C852	87-010-404-089		CAP,E 4.7-50 SME<EXCEPT LH,HE,HK>	R107	87-029-016-019		FUSE,RES 22-1/2W FM
C853	87-010-405-089		CAP,E 10-50 SME<EXCEPT LH,HE,HK>	R145	87-022-050-089		RESIS METAL 1W-0.22J
C854	87-010-248-089		CAP,E 220-10 SME<EXCEPT LH,HE,HK>	R146	87-022-050-089		RESIS METAL 1W-0.22J
C926	87-010-190-089		C-CAP,S 0.01-50 F	R188	87-029-089-099		FUSE,RES 4.7-1/4W FM
C927	87-010-196-089		C-CAP,S 0.1-25 F	R189	87-029-070-099		FUSE,RES 2.2-1/4W FM
C929	87-010-190-089		C-CAP,S 0.01-50 F	R255	87-022-050-089		RESIS METAL 1W-0.22J<EXCEPT U>
C963	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>	R256	87-022-050-089		RESIS METAL 1W-0.22J<EXCEPT U>
C964	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>	R257	87-022-050-089		RESIS METAL 1W-0.22J<EXCEPT U>
C965	87-010-196-089		C-CAP,S 0.1-25 F<K,EE,EEZ,EZ>	R258	87-022-050-089		RESIS METAL 1W-0.22J<EXCEPT U>
C966	87-018-209-089		CAP,TC-U 0.1-50 F<K,EE,EEZ,EZ>	R851	87-025-474-089		RES,NF 15-1/4W J<EXCEPT LH,HE,HK>
C967	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	RY101	87-045-335-010		RELAY,G5Z-2A 12VDC
C968	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	RY151	87-045-335-010		RELAY,G5Z-2A 12VDC
C969	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SF401	87-030-105-010		.FLTR,BPMB6A<K,EE,EEZ,EZ>
C970	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SFR501	87-021-743-019		SFR,22K DIA6
C973	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>	TC401	87-011-219-089		CAP TRIMMER 10P VCT
C974	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>	TC402	87-011-219-089		CAP TRIMMER 10P VCT
C975	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>	TC403	87-011-219-089		CAP TRIMMER 10P VCT<K,EE,EEZ,EZ>
C976	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>	TC451	87-011-220-089		CAP TRIMMER 20P VCT<K,EE,EEZ,EZ>
C977	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>	TC452	87-011-221-089		TRIMER.30P VCT51<K,EE,EEZ,EZ>
C978	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>	TH851	82-304-722-010		THERMISTA 42D26<EXCEPT LH,HE,HK>
C979	87-010-196-089		C-CAP,S 0.1-25 F<K,EE,EEZ,EZ>	W101	82-NT1-640-119		F-CABLE,7P-2.5
C980	87-010-196-089		C-CAP,S 0.1-25 F<K,EE,EEZ,EZ>	W102	82-NT1-644-019		CORD,FG 15P
C981	87-012-369-089		C-CAP,S,0.047-50 F	WIR1	82-NT1-641-019		F-CABLE 5P-1.25
C986	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>	X551	87-030-299-019		VIB,XTAL 7.2MHZ(KDS)
C987	87-010-194-089		C-CAP,S 0.047-25 F<K,EE,EEZ,EZ>				
CF501	87-008-261-019		FLTR,SFE10.7MA5-A<HE,LH,HK,U,HR>				
CF501	87-008-534-019		FLTR,SFE10.7MS3GH-B<K,EE,EEZ,EZ>	FRONT C.B			
CF502	87-008-423-019		CF,SFE10.7 MS3G-A<K,EE,EEZ,EZ>	C1	87-010-370-089		CAP,E 330-6.3 SME
CF502	87-008-261-019		FLTR,SFE10.7MA5-A<HE,LH,HK,HR>	C2	87-018-134-089		CAP,TC-U 0.01-16 Y
CF503	87-008-518-019		FLTR,CDA10.7MC-43AAZ<K,EE,EEZ,EZ>	C3	87-010-197-089		C-CAP,S 0.01-25 B
CF503	87-008-500-019		FLTR,CDA10.7MG43A-A<HE,LH,HK,U,HR>	C4	87-010-405-049		CAP,E 10-50 SME
CF504	84-508-618-019		VIB,CER CSB 456 F/5	C5	87-010-182-089		C-CAP,S 2200P-50 B
CON101	87-009-265-019		CONN,11P 52147 MXJ	C6	87-010-182-089		C-CAP,S 2200P-50 B
CON102	87-009-257-019		CONN 3P 52147 MXJ	C7	87-010-178-089		C-CAP,S 1000P-50 B
D451	81-754-634-019		VARI-CAP, KV1260<K,EE,EEZ,EZ>	C8	87-010-404-089		CAP,E 4.7-50 SME
J202	87-099-715-019		JACK,PIN 2P<HE,LH,HK,U,HR>	C9	87-010-412-049		CAP,E 10-25 5L
J202	87-099-716-019		JACK,PIN 2P W/E<K,EE,EEZ,EZ>	C10	87-010-400-049		CAP,E 0.47-50
J203	87-033-226-019		TERMINAL,SP 4P (JT)	C11	87-012-145-089		C-CAP S 270P-50CH
J204	87-099-606-019		JACK,PIN OR-BK	C12	87-010-067-049		CAP,E 0.1-50.5L
J301	81-669-655-019		JACK,6.3 W/S AU	C17	87-010-412-049		CAP,E 10-25 5L
J401	81-631-646-019		ANT TERM 2P PAL<K,EE,EEZ,EZ>	C18	87-010-405-049		CAP,E 10-50 SME
J401	87-033-214-019		ANT TERM 4P(JT)<HE,LH,HK,U,HR>	C19	87-010-405-049		CAP,E 10-50 SME
L201	87-003-383-019		COIL,1UH-S<K,EE,EEZ,EZ>	C20	87-010-544-049		CAP,E 0.1-50 SME
L202	87-003-383-019		COIL,1UH-S<K,EE,EEZ,EZ>	C23	87-010-197-089		C-CAP,S 0.01-25 B
L203	87-003-383-019		COIL,1UH-S<K,EE,EEZ,EZ>	C40	87-010-405-089		CAP,E 10-50 SME
L204	87-003-383-019		COIL,1UH-S<K,EE,EEZ,EZ>	C41	87-010-405-089		CAP,E 10-50 SME
L301	87-003-152-089		COIL,100UH<K,EE,EEZ,EZ>	C42	87-010-405-089		CAP,E 10-50 SME
L302	87-003-152-089		COIL,100UH<K,EE,EEZ,EZ>	C62	87-018-209-089		CAP,TC-U 0.1-50 F<K,EE,EEZ,EZ>
L401	87-006-209-019		COIL,ANT FM 3/4 T	C80	87-015-819-089		CHIP CAP 0.01
L402	87-006-210-019		COIL,ANT FM 2 3/4T	C101	87-010-179-089		C-CAP,S 1200P-50 B
L403	87-006-200-019		COIL, RF FM 3-1/2T,L5	C102	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>
L404	87-006-201-019		COIL,RF FM3-1/2TS, L5	C103	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>
L405	87-006-201-019		COIL,RF FM3-1/2TS, L5<K,EE,EEZ,EZ>	C104	87-010-574-089		C-CAP,S 470P-50 UJ
L406	87-006-205-019		COIL,OSC FM (7K)	C105	87-010-405-049		CAP,E 10-50 SME
L407	87-003-231-089		C-COIL,S1UH	C107	87-010-405-049		CAP,E 10-50 SME
L408	87-008-427-019		COIL FMIFT (4T)	C108	87-010-405-049		CAP,E 10-50 SME
L451	82-NT1-685-019		AM PACK 3, S-2NT<HE,LH,HK,U,HR>	C131	87-010-196-089		C-CAP,S 0.1-25 F
L451	87-006-207-019		COIL ANT MW (3B)<K,EE,EEZ,EZ>	C133	87-010-196-089		C-CAP,S 0.1-25 F
L452	87-006-208-019		COIL, ANT LW<K,EE,EEZ,EZ>	C134	87-010-197-089		C-CAP,S 0.01-25 B
L453	82-NT1-685-019		AM PACK 3, S-2NT<HE,LH,HK,U,HR>	C135	87-010-322-089		C-CAP,S 100P-50 CH
L453	82-794-687-019		COIL,OSC<K,EE,EEZ,EZ>	C136	87-015-819-089		CHIP CAP 0.01
L454	82-794-688-019		COIL,OSC LW<K,EE,EEZ,EZ>	C137	87-010-196-089		C-CAP,S 0.1-25 F
L501	82-NT1-659-019		FILTER,CFAZ-450 2NT	C138	87-018-209-089		CAP,TC-U 0.50F
L503	87-003-241-089		C-COIL,S 4.7U	C151	87-010-401-089		CAP,E 1-50 SME
L504	82-NT1-633-019		FLTR AMTI-BIRDIE<K,EE,EEZ,EZ>	C152	87-010-263-089		CAP,E 100-10 SME 5X11
L551	87-003-241-089		C-COIL,S 4.7U	C301	87-010-404-049		CAP,E 4.7-50 SME
L601	81-631-643-019		COIL 1 POLE MPX	C302	87-010-404-049		CAP,E 4.7-50 SME

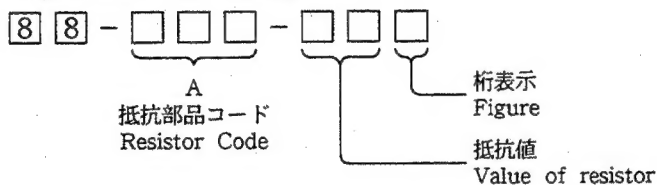
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C303	87-010-404-049		CAP,E 4.7-50 SME	L1	87-003-102-089		COIL,10UH
C304	87-010-404-049		CAP,E 4.7-50 SME	L2	87-003-152-089		COIL,100UH
C305	87-010-404-049		CAP,E 4.7-50 SME	L21	87-003-102-089		COIL,10UH
C306	87-010-404-049		CAP,E 4.7-50 SME	L22	87-003-102-089		COIL,10UH
C307	87-012-140-089		C-CAP,S 470P-50 CH	L30	87-003-102-089		COIL,10UH
C308	87-012-140-089		C-CAP,S 470P-50 CH	L32	87-003-102-089		COIL,10UH
C309	87-010-184-089		C-CAP,S 3300P-50 B	R15	87-022-610-080		C-RES,S11K-1/10W F
C310	87-010-184-089		C-CAP,S 3300P-50 B	R16	87-022-610-080		C-RES,S11K-1/10W F
C311	87-010-197-089		C-CAP,S 0.01-25 B	R17	87-022-610-080		C-RES,S11K-1/10W F
C312	87-010-197-089		C-CAP,S 0.01-25 B	R18	87-022-610-080		C-RES,S11K-1/10W F
C313	87-010-178-089		C-CAP,S 1000P-50 B	SW1	87-036-215-089		SW,TACT EVQ21404M
C314	87-010-178-089		C-CAP,S 1000P-50 B	SW2	87-036-215-089		SW,TACT EVQ21404M
C315	87-010-184-089		C-CAP,S 3300P-50 B	SW3	87-036-215-089		SW,TACT EVQ21404M
C316	87-010-184-089		C-CAP,S 3300P-50 B	SW4	87-036-215-089		SW,TACT EVQ21404M
C317	87-010-213-089		C-CAP,S 0.015-50 B	SW5	87-036-215-089		SW,TACT EVQ21404M
C318	87-010-213-089		C-CAP,S 0.015-50 B	SW6	87-036-215-089		SW,TACT EVQ21404M
C319	87-010-189-089		C-CAP,S 8200P-50 B	SW7	87-036-215-089		SW,TACT EVQ21404M
C320	87-010-189-089		C-CAP,S 8200P-50 B	SW8	87-036-215-089		SW,TACT EVQ21404M
C321	87-010-194-089		C-CAP,S 0.047-25 F	SW9	87-036-215-089		SW,TACT EVQ21404M
C322	87-010-194-089		C-CAP,S 0.047-25 F	SW10	87-036-215-089		SW,TACT EVQ21404M
C323	87-010-198-089		C-CAP,S 0.022-25 B	SW11	87-036-215-089		SW,TACT EVQ21404M
C324	87-010-198-089		C-CAP,S 0.022-25 B	SW12	87-036-215-089		SW,TACT EVQ21404M
C325	87-010-544-049		CAP,E 0.1-50 SME	SW13	87-036-215-089		SW,TACT EVQ21404M
C326	87-010-544-049		CAP,E 0.1-50 SME	SW14	87-036-215-089		SW,TACT EVQ21404M
C327	87-010-427-089		C-CAP,S 0.039-25 F	SW15	87-036-215-089		SW,TACT EVQ21404M
C328	87-010-427-089		C-CAP,S 0.039-25 F	SW16	87-036-215-089		SW,TACT EVQ21404M
C329	87-010-546-049		CAP,E 0.33-50	VR1	81-MT3-633-019		VR 10KA RK11K1130
C330	87-010-546-049		CAP,E 0.33-50	VR101	82-NT1-651-019		VOL SLIDE 10KB<HE,HK,HR>
C331	87-010-195-089		C-CAP,S 0.068-25 F	VR201	83-NTB-631-019		VOL,SLIDE 100KMN
C332	87-010-195-089		C-CAP,S 0.068-25 F				
C333	87-010-402-049		CAP E2.2-50 SME	VOL C.B			
C334	87-010-402-049		CAP E2.2-50 SME				
C335	87-012-140-089		C-CAP,S 470P-50 CH	C201	87-010-405-089		CAP,E 10-50 SME
C336	87-012-140-089		C-CAP,S 470P-50 CH	C202	87-010-405-089		CAP,E 10-50 SME
C337	87-010-404-049		CAP,E 4.7-50 SME	C209	87-010-177-089		C-CAP,S 820P-50 SL
C338	87-010-404-049		CAP,E 4.7-50 SME	C210	87-010-177-089		C-CAP,S 820P-50 SL
C339	87-010-197-089		C-CAP,S 0.01-25 B	C211	87-010-197-089		C-CAP,S 0.01-25 B
C340	87-010-260-049		CAP,E 47-25 SME	C212	87-010-197-089		C-CAP,S 0.01-25 B
C341	87-010-260-049		CAP,E 47-25 SME	C215	87-010-404-089		CAP,E 4.7-50 SME
C342	87-010-260-049		CAP,E 47-25 SME	C216	87-010-404-089		CAP,E 4.7-50 SME
C351	87-010-574-089		C-CAP,S 470P-50 UJ<K,EE,EEZ,EZ>	C217	87-012-155-089		C-CAP,S 180P-50 CH
C352	87-010-574-089		C-CAP,S 470P-50 UJ<K,EE,EEZ,EZ>	C218	87-012-155-089		C-CAP,S 180P-50 CH
C981	87-010-197-089		C-CAP,S 0.01-25 B	C219	87-010-184-089		C-CAP,S 3300P-50 B
CP1	87-008-497-089		CERA LOCK CST7.68MTW	C220	87-010-184-089		C-CAP,S 3300P-50 B
D14	87-017-376-080		LED,SEL6514C TP6	C221	87-010-404-089		CAP,E 4.7-50 SME
D15	87-017-376-080		LED,SEL6514C TP6	C222	87-010-404-089		CAP,E 4.7-50 SME
D16	87-017-376-080		LED,SEL6514C TP6	C225	87-010-400-089		CAP,E 0.47-50 SME
D17	87-017-376-080		LED,SEL6514C TP6	C226	87-010-400-089		CAP,E 0.47-50 SME
D18	87-017-376-080		LED,SEL6514C TP6	C227	87-010-404-089		CAP,E 4.7-50 SME
D19	87-017-376-080		LED,SEL6514C TP6	C228	87-010-404-089		CAP,E 4.7-50 SME
D20	87-017-376-080		LED,SEL6514C TP6	C229	87-010-405-089		CAP,E 10-50 SME
D59	87-017-369-080		LED SEL2510C TP-6	C230	87-010-405-089		CAP,E 10-50 SME
D60	87-017-369-080		LED SEL2510C TP-6	C231	87-010-405-089		CAP,E 10-50 SME
D61	87-020-862-080		LED,SEL-2213C	C232	87-010-401-089		CAP,E 1-50 SME
D62	87-020-862-080		LED,SEL-2213C	C233	87-010-405-089		CAP,E 10-50 SME
D63	87-020-862-080		LED,SEL-2213C	C234	87-010-401-089		CAP,E 1-50 SME
D64	87-020-862-080		LED,SEL-2213C	C235	87-010-178-089		C-CAP,S 1000P-50 B
D65	87-020-862-080		LED,SEL-2213C	C236	87-010-178-089		C-CAP,S 1000P-50 B
D66	87-020-862-080		LED,SEL-2213C	C237	87-010-101-089		CAP,E 220-16 SME
D67	87-020-862-080		LED,SEL-2213C	C238	87-010-197-089		C-CAP,S 0.01-25 B
D68	87-020-862-080		LED,SEL-2213C	C501	87-010-404-089		CAP,E 4.7-50 SME
D69	87-020-862-080		LED,SEL-2213C	C502	87-012-393-089		C-CAP,S 0.22-16,R,K
D70	87-020-862-080		LED,SEL-2213C	C503	87-012-393-089		C-CAP,S 0.22-16,R,K
D71	87-020-862-080		LED,SEL-2213C	C504	87-012-393-089		C-CAP,S 0.22-16,R,K
D72	87-020-862-080		LED,SEL-2213C	C505	87-012-394-089		C-CAP,0.68-16,R,K
D73	87-020-862-080		LED,SEL-2213C	C509	87-010-248-089		CAP,E 220-10 SME
FB981	87-003-216-019		F-BEAD,BLOIRN1	C512	87-010-405-089		CAP,E 10-50 SME
FB982	87-003-216-019		F-BEAD,BLOIRN1	C513	87-010-405-089		CAP,E 10-50 SME
FL1	85-NT1-606-019		FL,BJ357GK	C516	87-010-263-089		CAP,E 100-10 SME 5X11
J1	81-MX4-630-019		JACK,3.5	C517	87-010-405-089		CAP,E 10-50 SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C518	87-010-405-089		CAP,E 10-50 SME	C823	87-010-195-089		C-CAP,S 0.068-25 F
C519	87-010-405-089		CAP,E 10-50 SME	C824	87-010-195-089		C-CAP,S 0.068-25 F
C520	87-016-472-089		CAP,E 22-16,SME (K)	C825	87-010-180-089		C-CAP,S 1500P-50 B
C522	87-010-404-089		CAP,E 4.7-50 SME	C829	87-010-401-089		CAP,E 1-50 SME
C523	87-016-081-089		C-CAP,S 0.1-16 RK	C830	87-010-374-089		CAP,E 47-10
C524	87-012-393-089		C-CAP,S 0.22-16,R,K	C831	87-010-179-089		C-CAP,S 1200P-50 B<HE,LH,HK,HR>
C525	87-016-081-089		C-CAP,S 0.1-16 RK	C837	87-010-196-089		C-CAP,S 0.1-25 F<HE,LH,HK,HR>
C526	87-016-081-089		C-CAP,S 0.1-16 RK	C838	87-010-196-089		C-CAP,S 0.1-25 F
C527	87-016-081-089		C-CAP,S 0.1-16 RK	C841	87-012-154-089		C-CAP,S 150P-50 CH
C530	87-010-176-089		C-CAP,S 680P-50 SL	C842	87-012-154-089		C-CAP,S 150P-50 CH
C540	87-010-176-089		C-CAP,S 680P-50 SL	C843	87-010-314-089		C-CAP,S 22P-50 CH
C541	87-016-456-089		CAP,E 22-16 LLA	C844	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>
C542	87-010-263-089		CAP,E 100-10 SME 5X11	C846	87-010-197-089		C-CAP,S 0.01-25 B
C603	87-010-196-089		C-CAP,S 0.1-25 F	C847	87-010-177-089		C-CAP,S 820P-50 SL
C604	87-010-196-089		C-CAP,S 0.1-25 F	C853	87-010-401-089		CAP,E 1-50 SME
C607	87-010-405-089		CAP,E 10-50 SME	C855	87-010-196-089		C-CAP,S 0.1-25 F
C608	87-010-405-089		CAP,E 10-50 SME	C856	87-010-196-089		C-CAP,S 0.1-25 F
C611	87-010-322-089		C-CAP,S 100P-50 CH	L801	87-003-147-089		COIL,22UH
C612	87-010-322-089		C-CAP,S 100P-50 CH	R506	87-025-407-089		RES,M/F 100K-1/8W
C613	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	VR601	85-NT1-607-019		VR,MOT 50KBX4
C614	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	WIR201	82-NT2-641-019		F-CABLE,11-2.0
C615	87-010-404-089		CAP,E 4.7-50 SME	WIR202	82-NT2-640-019		F-CABLE,3-2.0
C616	87-010-404-089		CAP,E 4.7-50 SME				
C617	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>				
C618	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>				
				TRAY C.B			
C619	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW801	87-036-215-089		SW,TACT EVQ21404M
C620	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW802	87-036-215-089		SW,TACT EVQ21404M
C621	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW803	87-036-215-089		SW,TACT EVQ21404M
C622	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW804	87-036-215-089		SW,TACT EVQ21404M
C623	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW805	87-036-215-089		SW,TACT EVQ21404M
C624	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW806	87-036-215-089		SW,TACT EVQ21404M
C627	87-010-404-089		CAP,E 4.7-50 SME	SW807	87-036-215-089		SW,TACT EVQ21404M
C628	87-010-404-089		CAP,E 4.7-50 SME	SW808	87-036-215-089		SW,TACT EVQ21404M
C629	87-010-322-089		C-CAP,S 100P-50 CH	SW809	87-036-215-089		SW,TACT EVQ21404M
C630	87-010-322-089		C-CAP,S 100P-50 CH	SW810	87-036-215-089		SW,TACT EVQ21404M
C633	87-010-405-089		CAP,E 10-50 SME	SW811	87-036-215-089		SW,TACT EVQ21404M
C634	87-010-405-089		CAP,E 10-50 SME	SW812	87-036-215-089		SW,TACT EVQ21404M
C637	87-010-322-089		C-CAP,S 100P-50 CH	SW813	87-036-215-089		SW,TACT EVQ21404M<HE,HK,HR>
C638	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW814	87-036-215-089		SW,TACT EVQ21404M
C639	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW815	87-036-215-089		SW,TACT EVQ21404M
C640	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW816	87-036-215-089		SW,TACT EVQ21404M
C643	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW817	87-036-215-089		SW,TACT EVQ21404M
C644	87-010-322-089		C-CAP,S 100P-50 CH<K,EE,EEZ,EZ>	SW818	87-036-215-089		SW,TACT EVQ21404M
C645	87-010-405-089		CAP,E 10-50 SME	SW819	87-036-215-089		SW,TACT EVQ21404M
C646	87-010-405-089		CAP,E 10-50 SME	SW820	87-036-215-089		SW,TACT EVQ21404M<HR,U>
C647	87-010-196-089		C-CAP,S 0.1-25 F	SW821	87-036-215-089		SW,TACT EVQ21404M
C648	87-010-196-089		C-CAP,S 0.1-25 F	SW822	87-036-215-089		SW,TACT EVQ21404M
C651	87-010-405-089		CAP,E 10-50 SME	SW824	87-036-215-089		SW,TACT EVQ21404M
C652	87-010-405-089		CAP,E 10-50 SME	SW825	87-036-215-089		SW,TACT EVQ21404M
C653	87-010-196-089		C-CAP,S 0.1-25 F	SW826	87-036-215-089		SW,TACT EVQ21404M
C654	87-010-196-089		C-CAP,S 0.1-25 F	SW827	87-036-215-089		SW,TACT EVQ21404M
C655	87-010-805-089		C-CAP,S 1-16 F	SW828	87-036-110-019		SW,PUSH SPPB 62
C656	87-010-805-089		C-CAP,S 1-16 F	SW829	87-036-110-019		SW,PUSH SPPB 62
C801	87-010-405-089		CAP,E 10-50 SME				
C805	87-010-187-089		C-CAP,S 5600P-50 B<HE,HK,HR>				
C806	87-010-401-089		CAP,E 1-50 SME				
C807	87-010-401-089		CAP,E 1-50 SME				
C808	87-010-401-089		CAP,E 1-50 SME				
C809	87-010-263-089		CAP,E 100-10 SME 5X11				
C810	87-010-263-089		CAP,E 100-10 SME 5X11				
C811	87-010-263-089		CAP,E 100-10 SME 5X11				
C814	87-010-197-089		C-CAP,S 0.01-25 B				
C815	87-018-134-089		CAP,TC-U 0.01-16 Y				
C816	87-010-196-089		C-CAP,S 0.1-25 F				
C817	87-010-196-089		C-CAP,S 0.1-25 F				
C818	87-010-196-089		C-CAP,S 0.1-25 F				
C819	87-010-188-089		C-CAP,S 6800P-50 B				
C820	87-010-180-089		C-CAP,S 1500P-50 B				
C821	87-012-393-089		C-CAP,S 0.22-16,R,K				
C822	87-010-188-089		C-CAP,S 6800P-50 B				
				AMP C.B			
				C901	87-010-178-089		C-CAP,S 1000P-50 B
				C902	87-010-178-089		C-CAP,S 1000P-50 B
				C903	87-010-405-089		CAP,E 10-50 SME
				C904	87-010-405-089		CAP,E 10-50 SME
				C907	87-010-178-089		C-CAP,S 1000P-50 B
				C908	87-010-178-089		C-CAP,S 1000P-50 B
				C909	87-010-374-089		CAP,E 47-10
				C910	87-010-374-089		CAP,E 47-10
				C911	87-010-315-089		C-CAP,S 27P-50 CH
				C912	87-010-315-089		C-CAP,S 27P-50 CH
				C913	87-010-260-089		CAP,E 47-25 SME
				C914	87-010-260-089		CAP,E 47-25 SME
				C915	87-010-408-089		CAP,E 47-50 SME
				C916	87-010-196-089		C-CAP,S 0.1-25 F


REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C917	87-010-196-089		C-CAP,S 0.1-25 F	PT-2 C.B			
C918	87-010-194-089		C-CAP,S 0.047-25 F	R995	87-022-050-089		RESIS METAL 1W-0.22J
C919	87-010-194-089		C-CAP,S 0.047-25 F	R996	87-022-050-089		RESIS METAL 1W-0.22J
C928	87-010-178-089		C-CAP,S 1000P-50 B	R998	87-022-620-089		RES,M/F 0.22-2WJ NO P
C961	87-010-178-089		C-CAP,S 1000P-50 B<K,EE,EEZ,EZ>				
C962	87-010-178-089		C-CAP,S 1000P-50 B<K,EE,EEZ,EZ>	SW C.B<HE,LH,HK,HR>			
R923	87-022-200-089		RES METAL 0.56-1W	△F901	87-035-365-019		FUSE,2A 250V T E<HE,LH,HK>
R924	87-022-200-089		RES METAL 0.56-1W	△SW901	87-036-173-019		SW,SL 2-2-4 SDKG<HE,LH,HK,HR>
MOTOR C.B							
C401	87-010-263-089		CAP,E 100-10 SME 5X11				
C402	87-010-263-089		CAP,E 100-10 SME 5X11				
PT-1 C.B							
△	87-033-213-089		CLAMP,FUSE SMK				
△	82-304-743-019		TERMINAL, 1P				
△F1	87-035-365-019		FUSE,2A 250V TE<K,EE,EEZ,EZ>				
△F1	87-035-190-019		FUSE,T2A<HR>				
△F2	87-035-365-019		FUSE,2A 250V TE<HE,LH,HK>				
△PT101	85-NT1-612-019		PT,5NT-1 HR<HE,LH,HK,HR>				
△PT101	85-NT1-608-019		PT,5NT-1 K<K,EE,EEZ,EZ>				
△PT101	85-NT1-610-019		PT,5NT-1 K<U>				

# ○チップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち  
Chip Resistor Part Coding

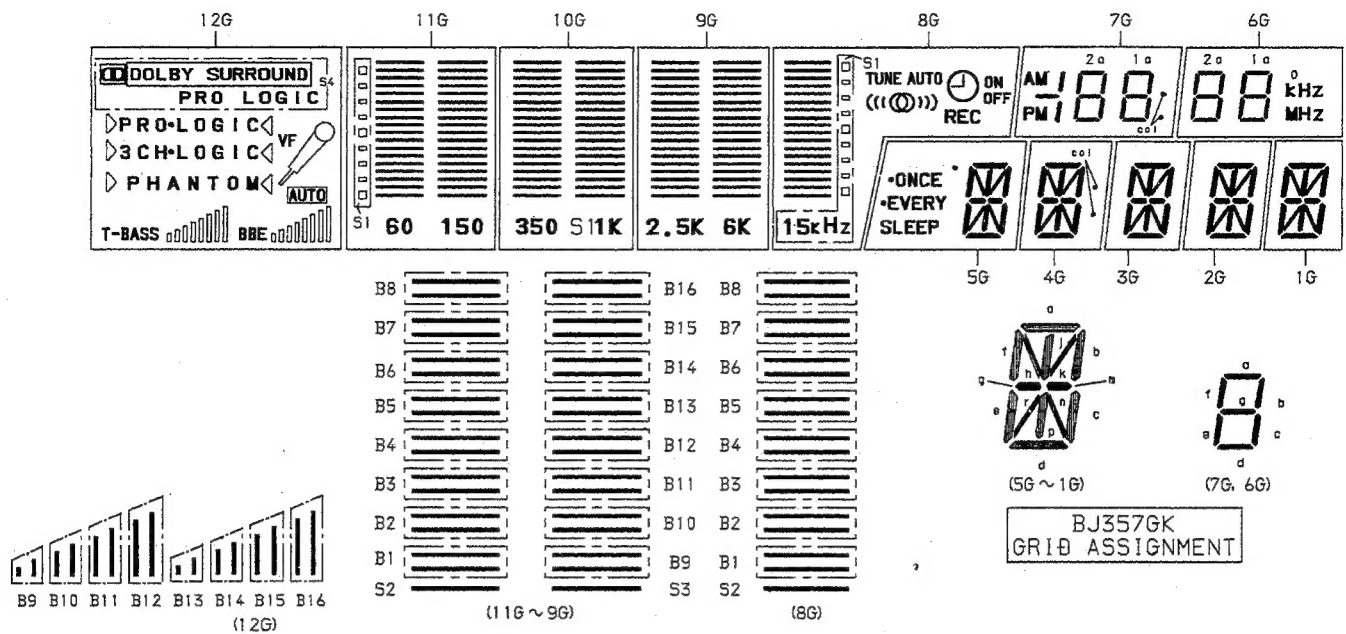


チップ抵抗  
Chip resistor

Chip Resistor				Dimensions/寸法 (mm)				Resistor Code : A 抵抗コード : A	
Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Form/外形	L	W	t		
									
1/32W	1608	± 5 %	CJ		1.6	0.8	0.35		108
1/10W	2125	± 5 %	CJ		2	1.25	1.45		118
1/8W	3126	± 5 %	CJ		3.2	1.6	0.5 ~0.7		128



## FL GRID ASSIGNMENT



## ANODE CONNECTION

	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	-	B1	B1	B1	B1	2f	2f	n	n	n	n	n
P2	AUTO	B2	B2	B2	B2	2c	2c	r	r	r	r	r
P3	VF	B3	B3	B3	B3	col (DOWN)	MHz	c	c	c	c	c
P4	BBE	B4	B4	B4	B4	2d	2d	m	m	m	m	m
P5	T-BASS	B5	B5	B5	B5	1b	1b	b	b	b	b	b
P6	PHANTOM	B6	B6	B6	B6	1c	1c	j	j	j	j	j
P7	XPHANTOM	B7	B7	B7	B7	1d	1d	a	a	a	a	a
P8	SCH-LOGIC	B8	B8	B8	B8	PM	o	o (ONCE)	-	-	-	-
P9	B9	B9	B9	B9	-	2a	2a	d	d	d	d	d
P10	B10	B10	B10	B10	-	2g	2g	p	p	p	p	p
P11	B11	B11	B11	B11	-	col (UP)	KHz	e	e	e	e	e
P12	B12	B12	B12	B12	OFF	2e	2e	g	g	g	g	g
P13	B13	B13	B13	B13	AUTO	1f	1f	f	f	f	f	f
P14	B14	B14	B14	B14	TUNE	1g	1g	k	k	k	k	k
P15	B15	B15	B15	B15	(((( )))	1e	1e	h	h	h	h	h
P16	B16	B16	B16	B16	ON	/	-	SLEEP	-	-	-	-
P17	S4	S1	S1	S1	S1	AM	-	o (EVERY)	-	-	-	-
P18	XPRO-LOGIC	S2	S2	S2	S2	o	-	EVERY	-	-	-	-
P19	PRO-LOGIC	S3	S3	S3	REC	1a	1a	o	col (UP)	-	-	-
P20	X3CH-LOGIC	-	-	-	o	2b	2b	ONCE	col (DOWN)	-	-	-

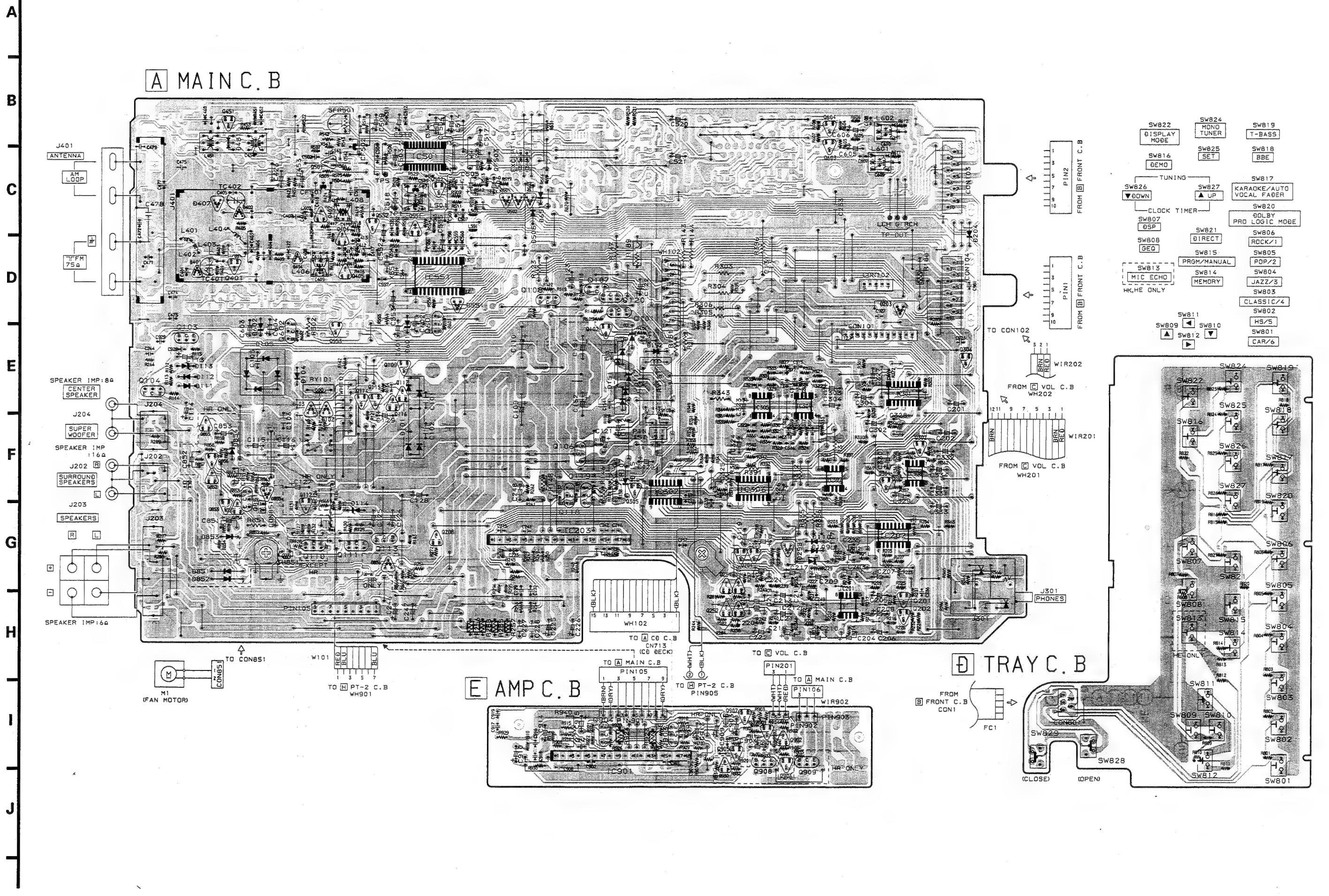
BJ357GK  
ANODE CONNECTION





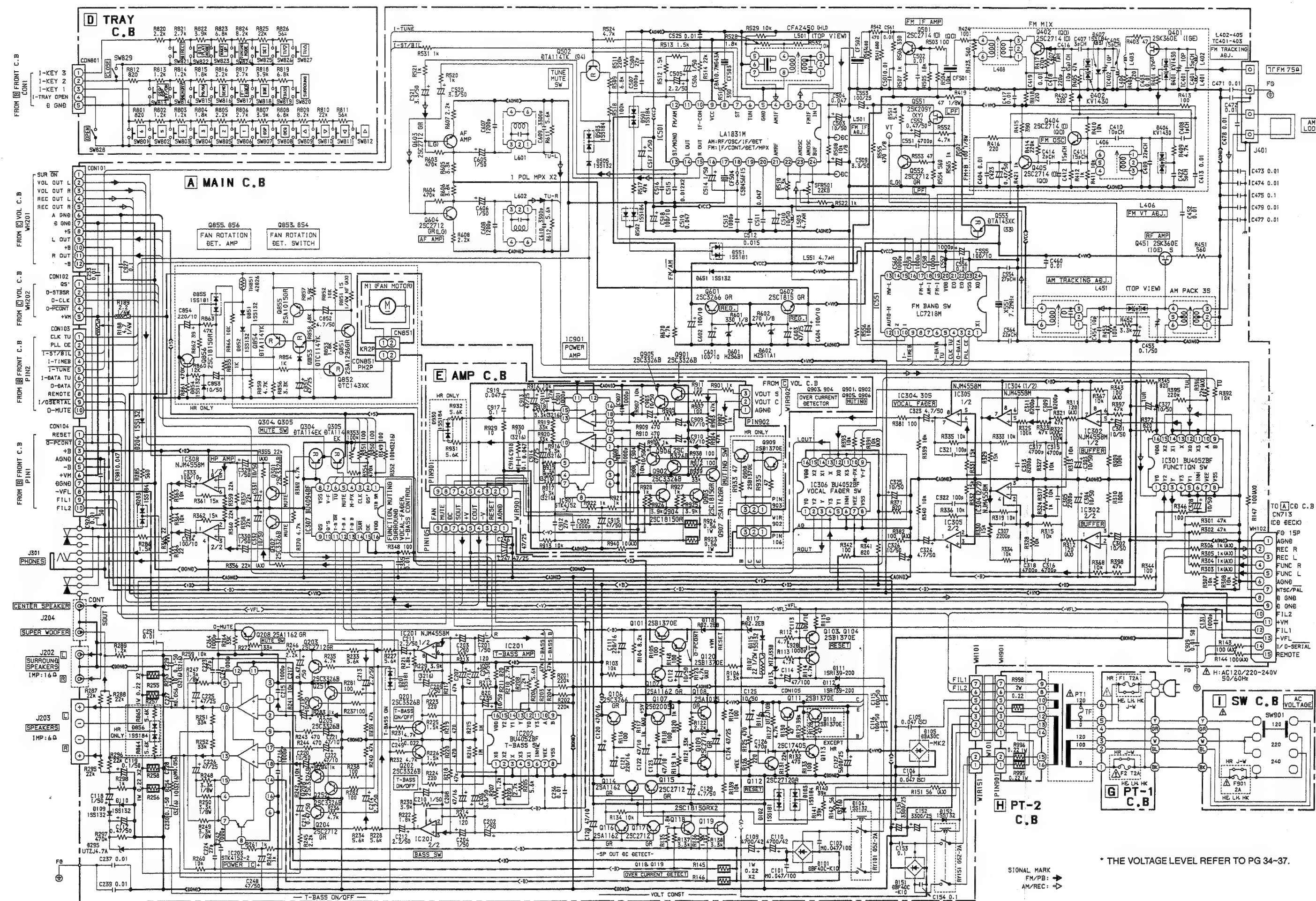








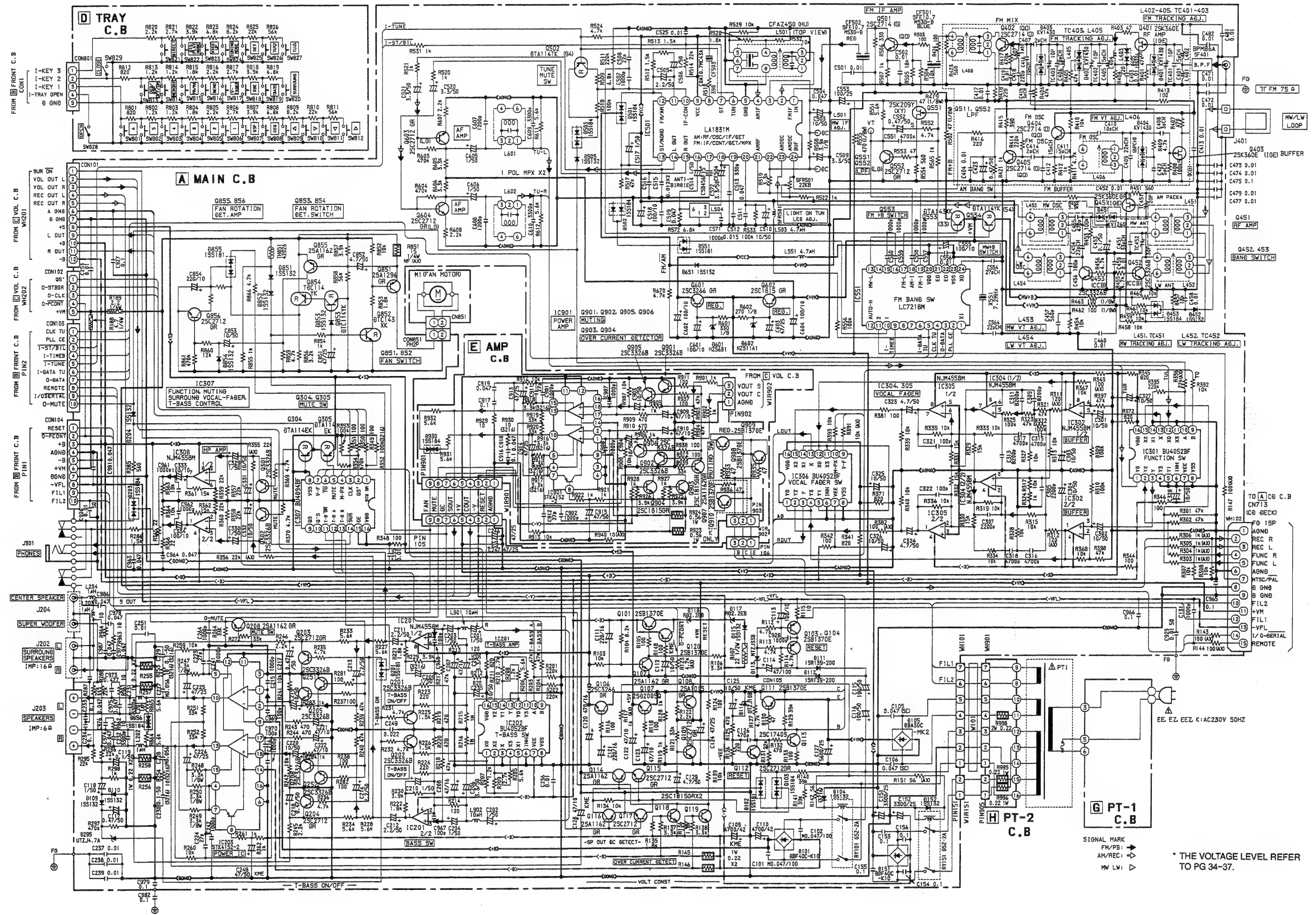
# SCHEMATIC DIAGRAM-1 (MAIN : HE,HK,LH,HR)

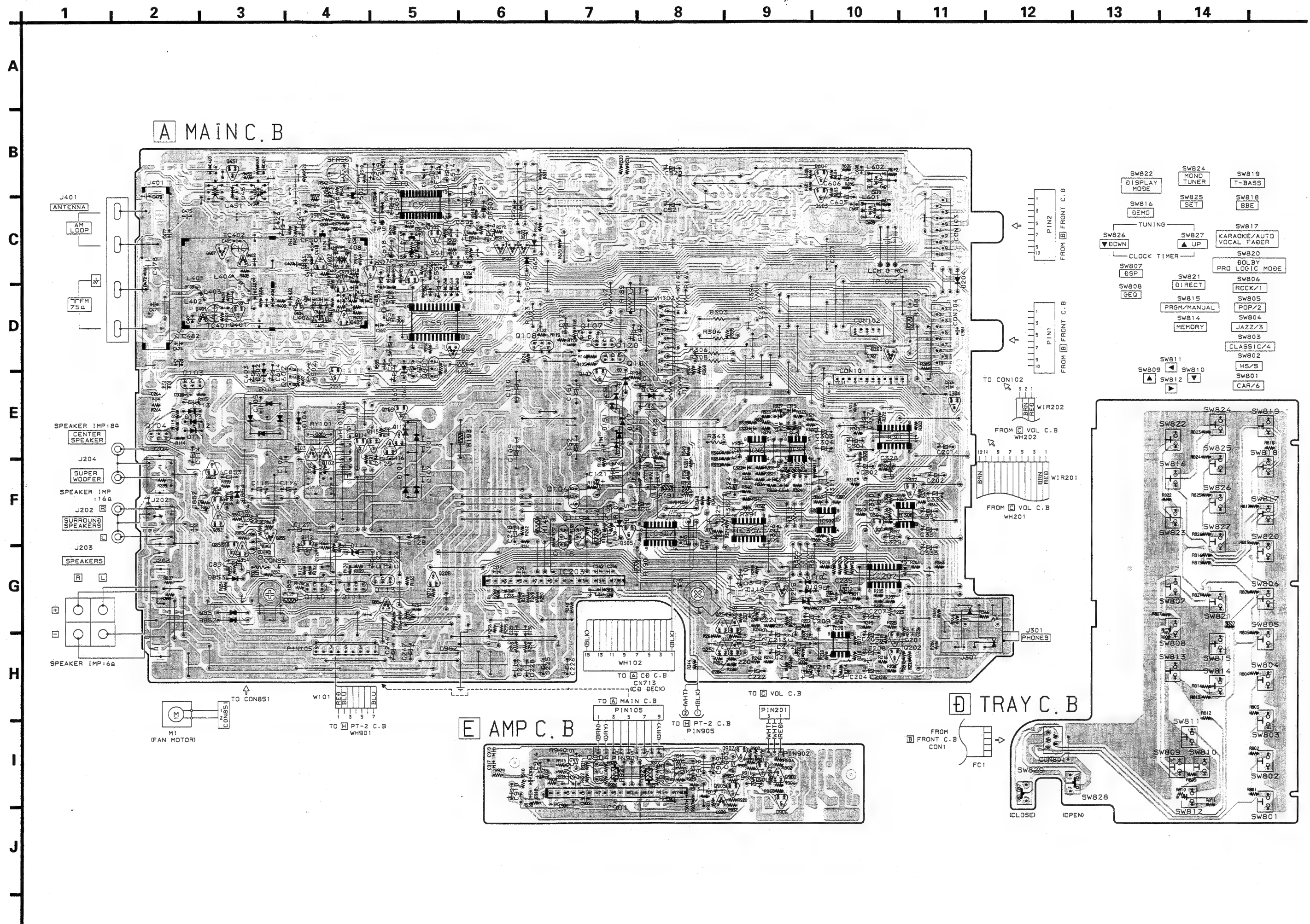






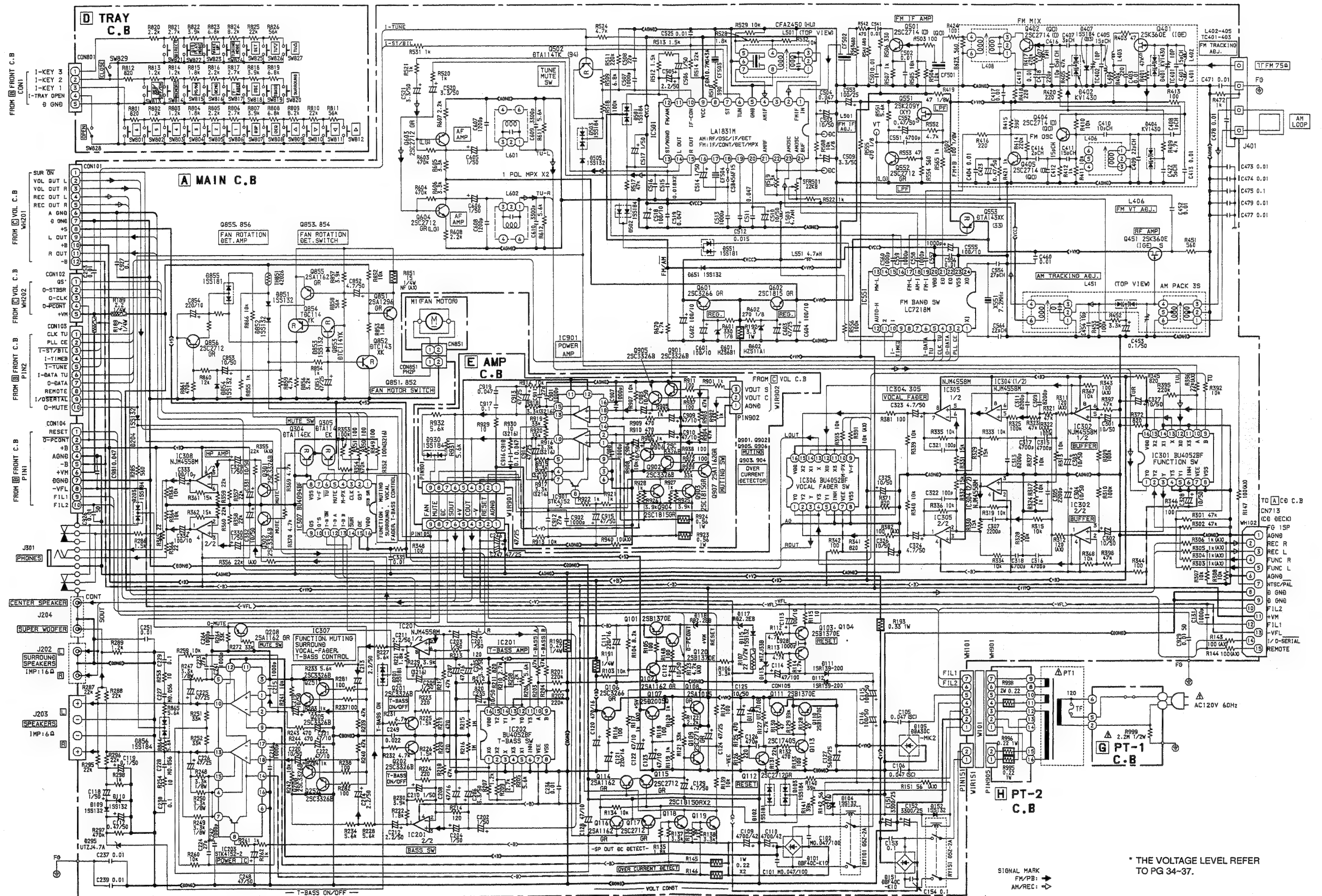
**SCHEMATIC DIAGRAM-2 (MAIN : EE,EZ,EEZ,K)**

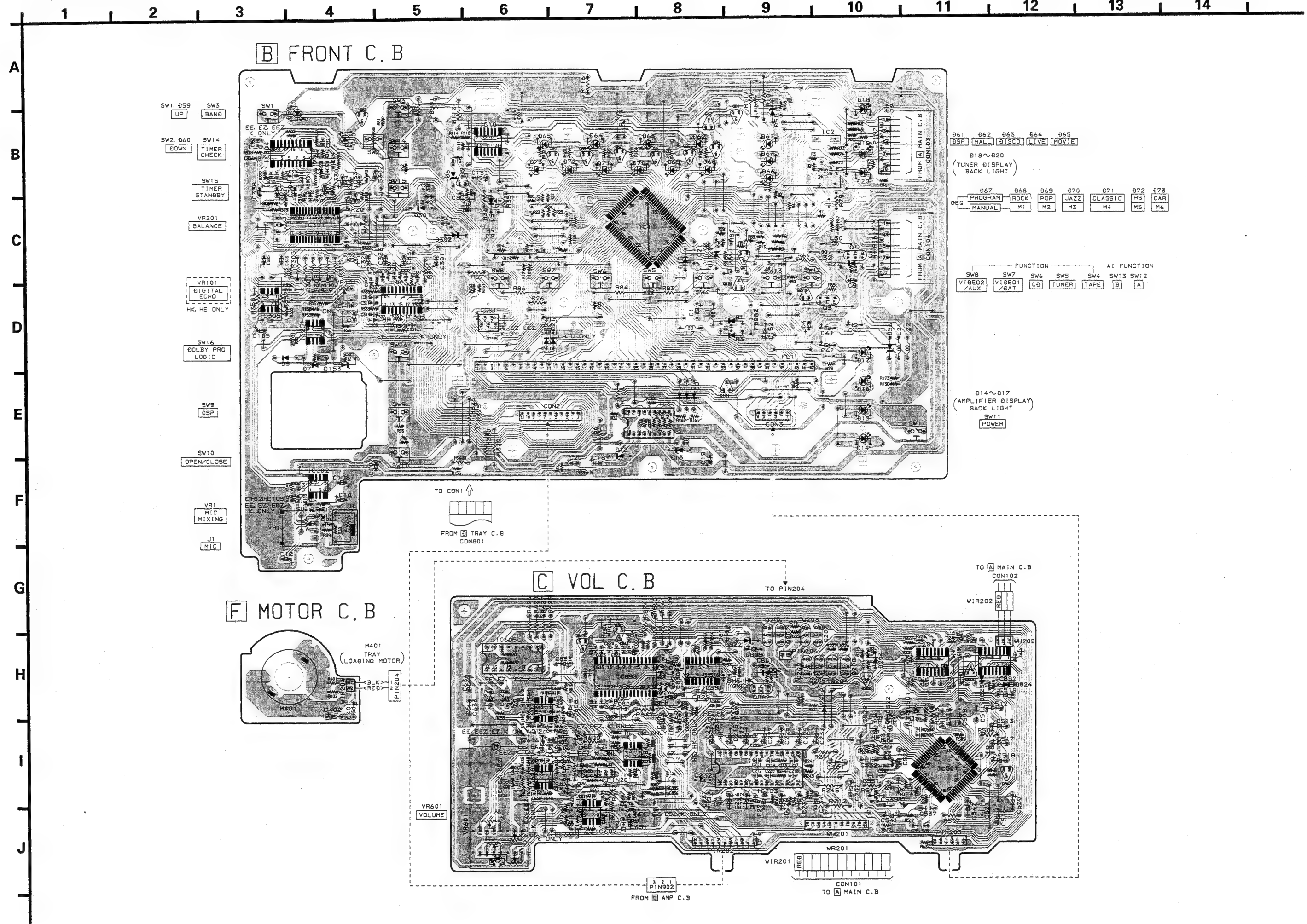






**SCHEMATIC DIAGRAM-3 (MAIN : U)**











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Transistor \ Terminal	Base (B)	Collector (C)	Emitter (E)
Q103	-31.7V	-42.8V	-31.1V
Q104	-43.2V	-54.8V	-42.7V
Q110,Q111	17.7V	12.0V	18.2V
Q908,Q909	17.7V	12.0V	18.2V
Q113	1.65V	17.0V	1.05V
Q101,Q120	-9.3V	-16.9V	-10.3V
Q102	-0.6V	-10.3V	0V
Q112	0.6V	1.7V	0V
Q107	6.0V	12.0V	5.5V
Q106	11.0V	12.0V	10.7V
Q118, Q119	-36.0V	4.7V	-36.0V
Q108 (power on)	11.3V	11.7V	12.0V
Q108 (power off)	12V	0V	12.0V
Q109	0V	4.7V	0V
Q114	-0.6V	0V	0V
Q115	0.6V	0V	0V
Q116	0V	-0.6V	0V
Q116	0V	-0.6V	0V
Q117	0V	0.6V	0V
Q201~Q204			
(T-Bass on)	0V	0V	0V
(T-Bass off)	0.7V	0V	0V
Q204,205 Q251,252			
(Mute off)	0V	0V	0V
(Mute on)	0.7V	0V	0V
Q208 (Mute off)	0V	0V	0V
Q208 (Mute on)	0.43V	0.78V	1.1V
Q901,902,Q905,906			
(Mute off)	0V	0V	0V
(Mute on)	0.7V	0V	0V
Q907 (Mute off)	0V	0V	0V
Q907 (Mute on)	0.43V	0.78V	1.1V
Q301,302			
(Mute off)	0V	0V	0V
(Mute on)	0.7V	0V	0V
Q304 (Mute off)	0V	0V	0V
Q304 (Mute on)	0.43V	5.2V	5.3V
Q305 (Mute off)	5.5V	0V	5.5V
Q305 (Mute on)	0V	5.3V	0V
Q856 (Mute off)	0V	0V	0V
Q856 (Mute on)	0.12V	0.02V	1.1V
Q855 (Mute off)	11.3V	11.9V	12.0V
Q855 (Mute on)	11.3V	7.2V	12.0V
Q854 (Mute off)	11.9V	0V	12.0V
Q854 (Mute on)	0V	11.9V	12.0V
Q853 (Mute off)	0~2.5V	0V	0V
Q853 (Mute on)	0~2.5V	11.9V	0V
Q852 (Mute off)	0.15~3.0V	12.0V	0V
Q852 (Mute on)	0.15~3.0V	0V	0V
Q851 (Mute off)	12.0V	0V	12.0V
Q851 (Mute on)	10.3V	11.0V	11.0V

\* Q856 ~ Q851 only for EE,EZ,EEZ,K destination.

Pin No.	IC203 Voltage	IC901 Voltage
1	0V	0V
2	0V	0V
3	0V	0V
4	-34.5V	-24.2V
5	-1.3V	-1.3V
6	0V	0V
7	-34.5V	-24.5V
8	-35.5V	-25.5V
9	-35.5V	-25.5V
10	0V	0V
11	35.5V	25.8V
12	35.5V	25.8V
13	0V	0V
14	-35.5V	-25.5V
15	-1.3V	-1.3V
16	0V	0V
17	0V	0V
18	0V	0V

Pin No.	IC201 Voltage	IC308 Voltage	IC302,304,305 Voltage
1	0V	0V	0V
2	0V	0V	0V
3	0V	0V	0V
4	-9.7V	0V	-8.6V
5	0V	0V	0V
6	0V	0V	0V
7	0V	0V	0V
8	10.4V	10.4V	9.3V

#### Voltage level at Tuner Block

Transistor	Terminal	Base (B)	Collector (C)	Emitter (E)
Q601		5.9V	12.0V	5.3V
Q602		10.1V	12.0V	9.4V
Q603,Q604		2.6V	5.0V	2.0V
Q401		0V	0V	3.7V
Q402		0.7V	7.5V	0V
Q404		2.2V	7.0V	1.5V
Q405		0.7V	6.7V	0V
Q451		0V	0.6V	9.2V
Q501		4.7V	6.4V	4.0V
Q502	(FM-ST)	0V	0V	0V
	(Normal)	5.3V	0V	0V
	(Scan/Mute)	5.3V	1.5V	4.8V
Q551		0.49~0.53V	0.6~0.63V	10.8~11.3V
Q552		0.6V	1.1~9.4V	0V
Q403		0V	0V	3.4V
Q452	(MW)	0.75V	0V	0V
	(others)	0V	0V	0V
Q453	(MW)	0.75V	0V	0V
	(others)	0V	0V	0V
Q554	(MW)	0.1V	9.4V	9.4V
	(others)	9.3V	0V	9.4V

\* Q403, Q452, Q453, Q554 are used for EE,EZ,K,EEZ destination.

Pin No.	CON103 Voltage	CON104 Voltage
1	Digital line	(Reset) 0V (Normal) 4.7V
2	Digital line	(Power off) 11.8V (Power on) 0V
3	(FM-ST) 0V (Others) 5.2V	10.3V -
4	Digital line	0V
5	(Tuning) 0V (Others) 5.1V	-9.7V -
6	Digital line	11.1V
7	Digital line	0V
8	Digital line	-30.7V
9	Digital line	-21.3V
10	(Mute) 5.6V (Normal) 0V	-21.3V -

Pin No.	IC551 Voltage	IC501 Voltage
1	2.4V	2.2V
2	Digital line	2.2V
3	Digital line	2.2V
4	Digital line	2.2V
5	Digital line	0V
6	NC	(Tuning) 0V (Others) 5.3V
7	NC	(FM stereo) 0V (Others) 5.3V
8	NC	3.8V
9	Digital line	5.3V
10	(FM Auto) 5.3V (FM Mono) 0V	(Scan/Mute) 1.5V (Stop) 0V
11	(NTSC) 5.3V (PAL) 0V	(FM) 4.0V (Others) 3.0V
12	NC	(FM) 4.0V (Others) 3.0V
13	(LW/FM) 9.4V (MW) 0.1V	(FM Auto) 4.3V (Others) 3.0~3.6V
14	NC	1.3V
15	0V	1.3V
16	0V	2.2V
17	(LW/MW) 9.4V (FM) 0.2V	(FM) 2.3V (Others) 0V
18	(LW/MW) 2.7V (FM) 0V	2.1V -
19	(FM) 2.7V (LW/MW) 0V	(FM) 2.2V (Others) 1.5V
20	5.3V	2.2V
21	NC	2.2V
22	0.49~0.53V	2.2V
23	0V	5.3V
24	2.4V	3.9V

# IC DESCRIPTION

IC, CXP82532-123Q

Pin No.	Pin Name	I/O	Description
1	I-HOLD	I	The present state is backed up when "L" = input.
2	I-REMOTE	I	Remote control signal input.
3	I-TUNE	I	Frequency disply and sending data to PLL are stopped during tuner reception. (L=input)
4	O-CLK TU	O	TU PLL clock.
5	O-PLL CE	O	TU PLL chip enable.
6	O-STB DSP	O	STB for DSP
7	O-LED GEQ	O	Light on when GEQ MANUAL.
8	O-CLK	O	CLK for shift register and DSP.
9	O-CLKD GEQ	O	CLK for electronic GEQ.
10	O-DATA	O	Data for shift register, TU and electronic GEQ.
11	I/O-SERIAL	I/O	I/O for FD communication.
12	I-DATA TU	I	Data input from TU PLL.
13	O-STB SR	O	STB for shift register.
14~19	O-LED 1~6	O	Output to light GEQ LEDs. "L" to light.
20	I-INIITAL	I	Input to initially set the micro-computer shipment destination.
21	I-TRAY OPEN	I	CONTROL TRAY OPEN detect switch input. "L" when TRAY OPEN.
22~25	I-KEY 1~4	I	Key A/D input.
26	O-FS.RESET	I	SPECTRUM ANALYZER IC RESET output.
27	I-SPE	I	SPECTRUM ANALYZER IC OUT input.
28	I-MIC	I	Mic input signal / Auto VF control.
29	O-STB VOL	O	STB for C/S-ch trim electronic vol.
30	I-RST	I	Reset input. Reset when "L".
31,32	EXTAL/XTAL	O/I	Oscillation crystal connection pin. (7.6MHz)
33	GND	-	Ground.
34	O-LED PRGM	O	Output "H" when GEQ PROGRAM.
35	O-LED TU	O	Output to light TU PRESET LED. "H" when TUNER function.
36	O-LED VOL	O	Output to light VOL LED. "H" when VOL LED light.
37,38	O-LED DSP A/B	O	Encode output for DSP LED display.
39~41	O-SEG 1~3/SPE SW YZ	O	Segment output and spectrum analyzer IC control output to light FL.
42~48	O-SEG 1~3	O	Segment output and the initial set D-matrix output to light FL.
49~58	O-SEG 1~3	O	Segment output to light FL.
59~70	O-GRID 12~1	O	Grid output to light FL.
71	-VFL	I	Pull down resistor common terminal for FL. (-28V)
72	VDD	I	Power supply. (+5V)
73	NC	I	Connected to VDD. (Not used)
74	O-LED DSP	O	Encode output for DSP LED display.
75	I-ST/BIL	I	FL stereo mark lights when "L" is input.
76	O-MUTE	O	Muting output. (Mute on when "L")
77	O-POWER	O	"L" output during power ON.
78,79	G1/G12	I	Timing-1/2 from SPECTRUM ANALYZER.
80	I-TIME B	I	CLK (8kHz) input for clock.

## IC, LC7218

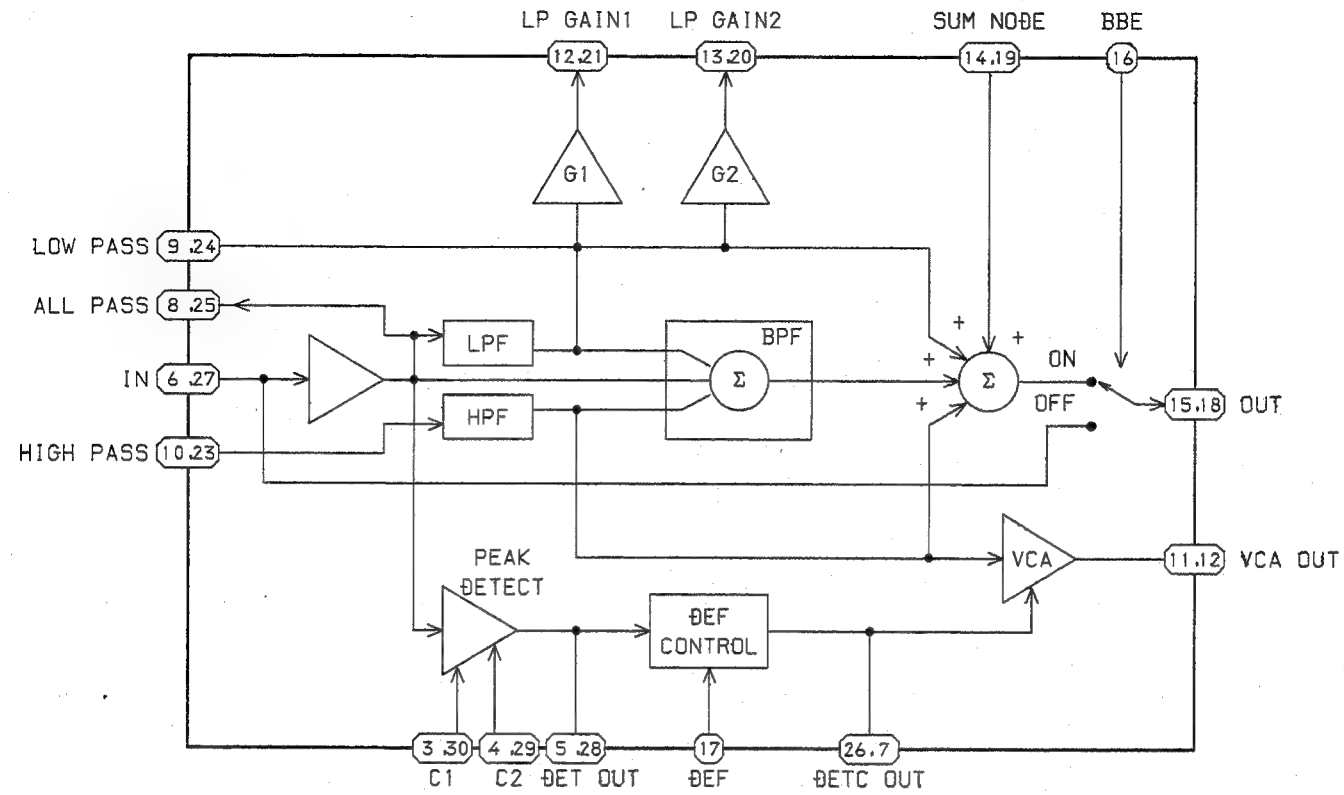
Pin No.	Pin Name	I/O	Description
1	XI	I	Connected to the crystal clock oscillator.
2	PLL CE	I	Input terminal of control data from microcomputer CXP82324-123Q.
3	O-DATA	I	
4	CLK	I	
5	DATA TU	O	Tuner data output.
6	-	-	Not used.
7	-	-	Not used.
8	-	-	Not used.
9	T-BASE	O	Clock time base output.
10	1	O	AUTO/MONO NTSC/PAL (except TUNER)
11	2	O	
12	AUTO-H	O	Not used.
13	MW-L	O	Tuner band selection output. (Not used.)
14	-	-	Not used.
15	LCTR	-	AM IF frequency input.
16	RCTR	-	FM IF frequency input.
17	FM-L	O	Tuner band selection output. FM/AM
18	AM-I	I	AM oscillation frequency input.
19	FM-I	I	AM oscillation frequency input.
20	VDD	-	+5V power supply terminal.
21	EO	O	Tuning voltage control output.
22	EO	-	Not used.
23	VSS	-	Ground.
24	XO	O	Connected to the crystal clock oscillator.

## IC, NJU7305M

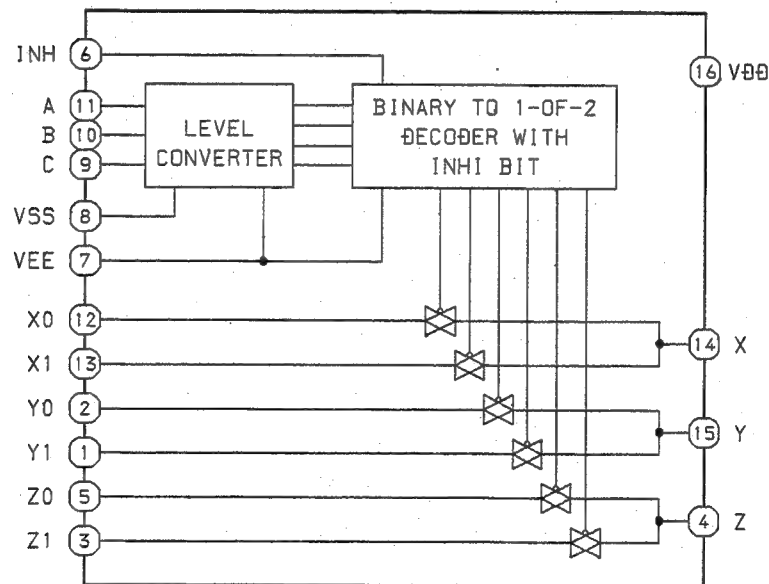
Pin No.	Pin Name	I/O	Description
1	VDD	-	Supply for voice signal. (+7.5V)
2,29	IN1L, IN1R	I	Voice signal input terminals.
3,28	IN2L, IN2R	I	Voice signal input terminals.
4~10	fL1 ~ fL7	I	Band filter connect terminals.
11	TEST1	-	Terminal for test in Internal Chip.
12	NC	-	Not used.
13	TEST2	-	Terminal for test in Internal Chip.
14	S	I	Input terminal of chip select signal from CPU.
15	VEE	-	Supply for voice signal. (-7.5V)
16	VCC	-	Voltage supply. (+5V)
17	DI	I	Input terminal of serial data from CPU.
18	CLK	I	Input terminal of clock from CPU.
19	NC	-	Not used.
20	VSS	-	Ground.
21~27	fR1~fR7	I	Band filter connect terminals.
30	NC	-	Not used.

IC BLOCK DIAGRAM

IC, XR1071CP



IC, MC14053BF

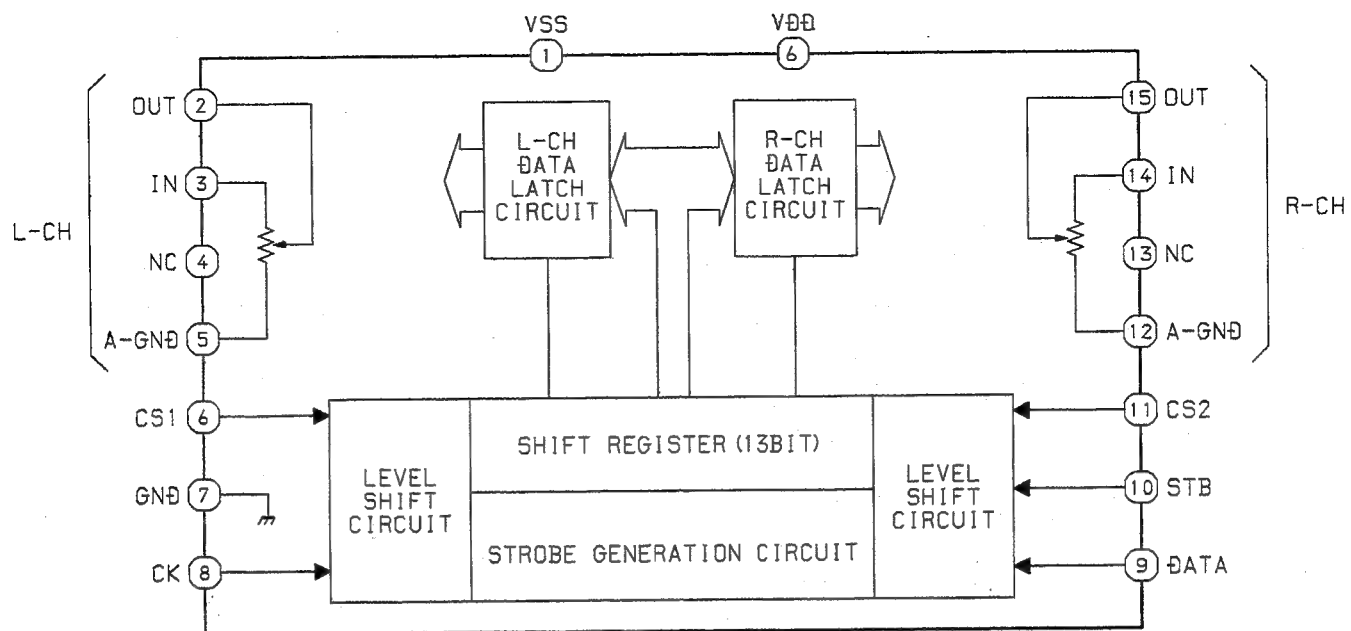


LOGIC TABLE

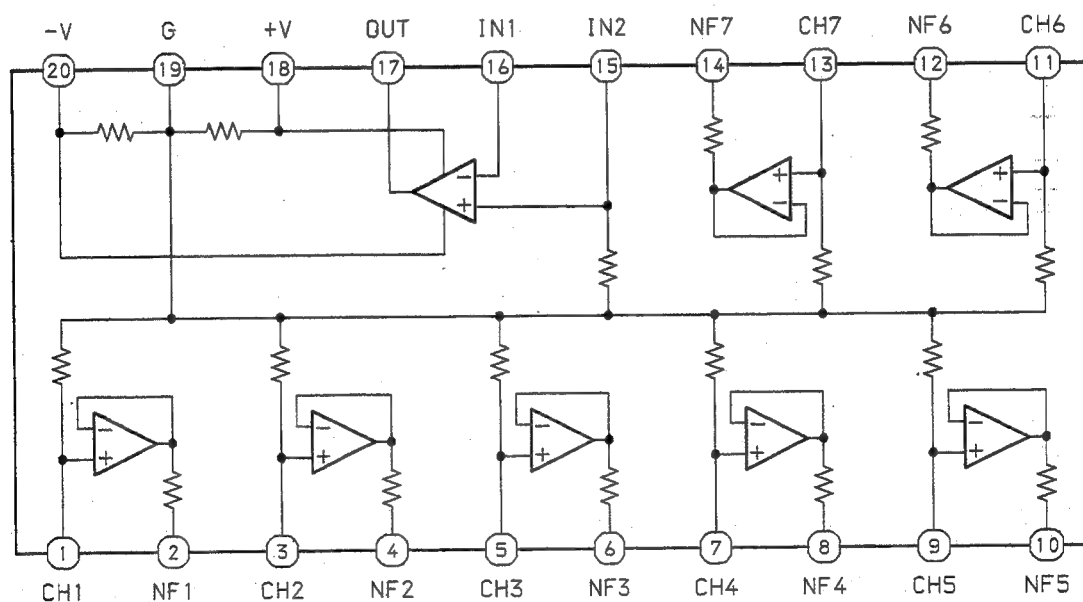
CONTROL INPUT		ON SWITCHES		
INH BIT	SELECT	MC14053BF		
	C B A			
0	0 0 0	Z0	Y0	X0
	0 0 1	Z0	Y0	X1
	0 1 0	Z0	Y1	X0
	0 1 1	Z0	Y1	X1
0	1 0 0	Z1	Y0	X0
	1 0 1	Z1	Y0	X1
	1 1 0	Z1	Y1	X0
	1 1 1	Z1	Y1	X1
1	X X X	NONE		



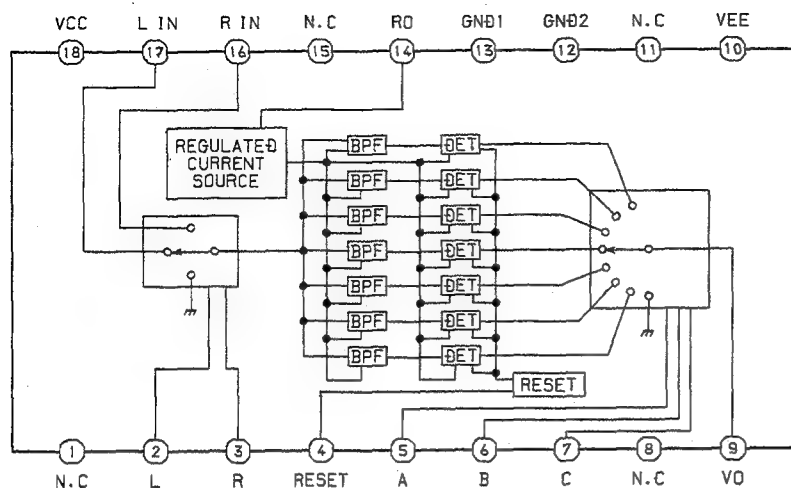
# IC, TC9299P



# IC, M5229FP



# IC, BA3826S



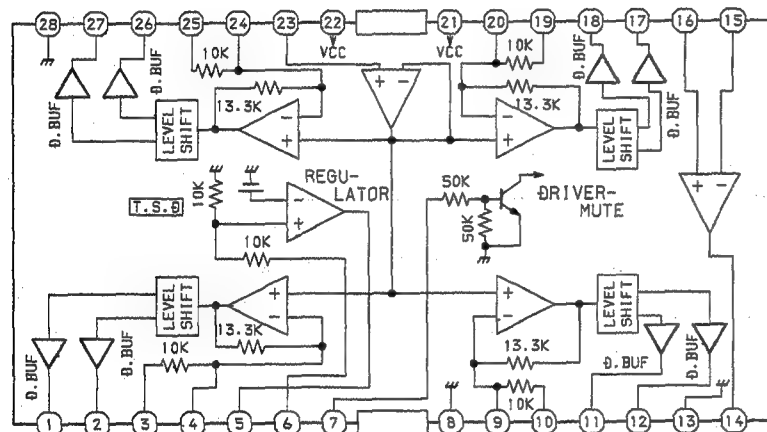
INPUT SELECTOR LOGIC TABLE

SELECTOR		INPUT
L (5PIN)	R (6PIN)	
L	L	UNDETERMINED 不定
L	H	L IN
H	L	R IN
H	H	OFF

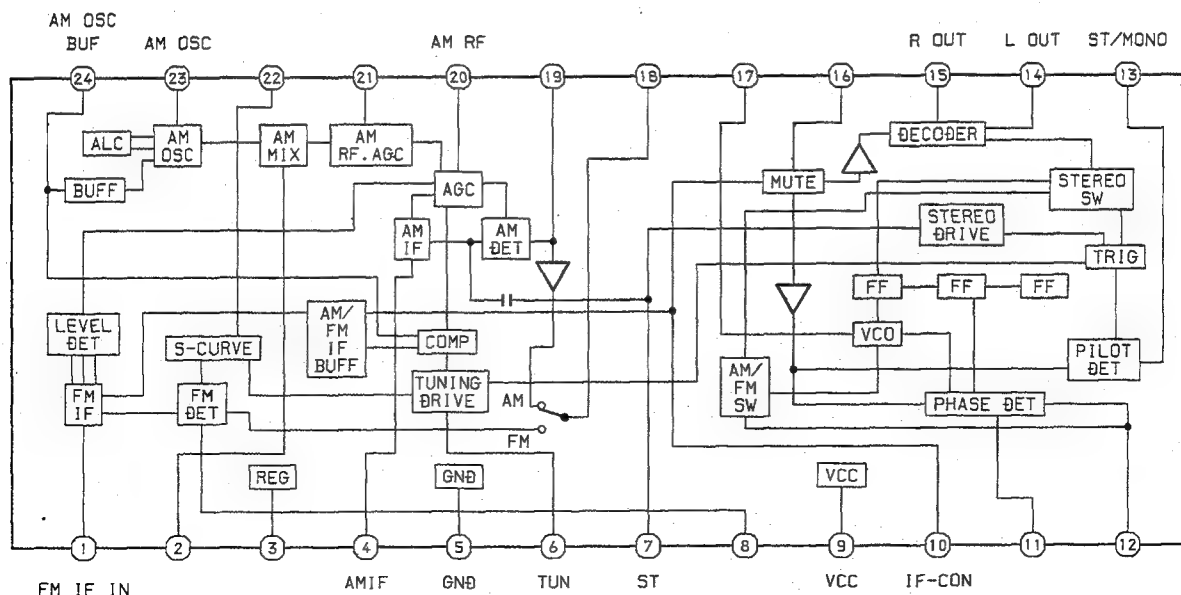
OUTPUT SELECTOR LOGIC TABLE

SELECT			OUTPUT
A (5PIN)	B (6PIN)	C (7PIN)	C (7PIN)
H	H	H	0
L	H	H	F01
H	L	H	F02
L	L	H	F03
H	H	L	F04
L	H	L	F05
H	L	L	F06
L	L	L	F07

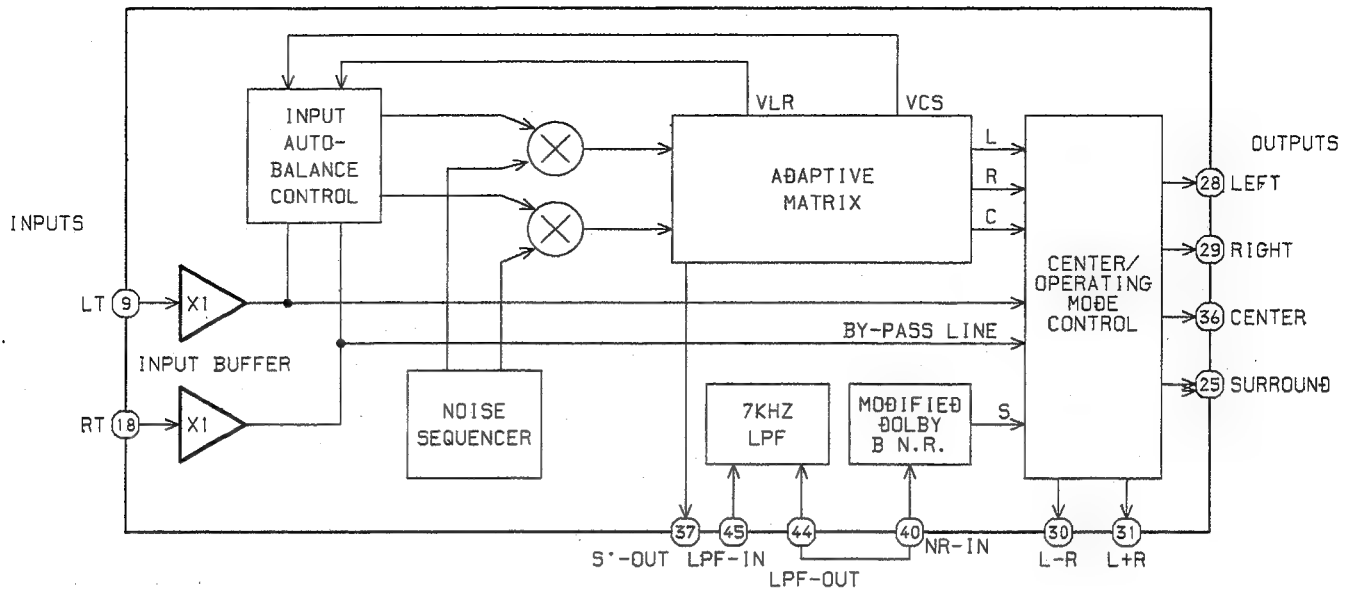
# IC, BA6397FP



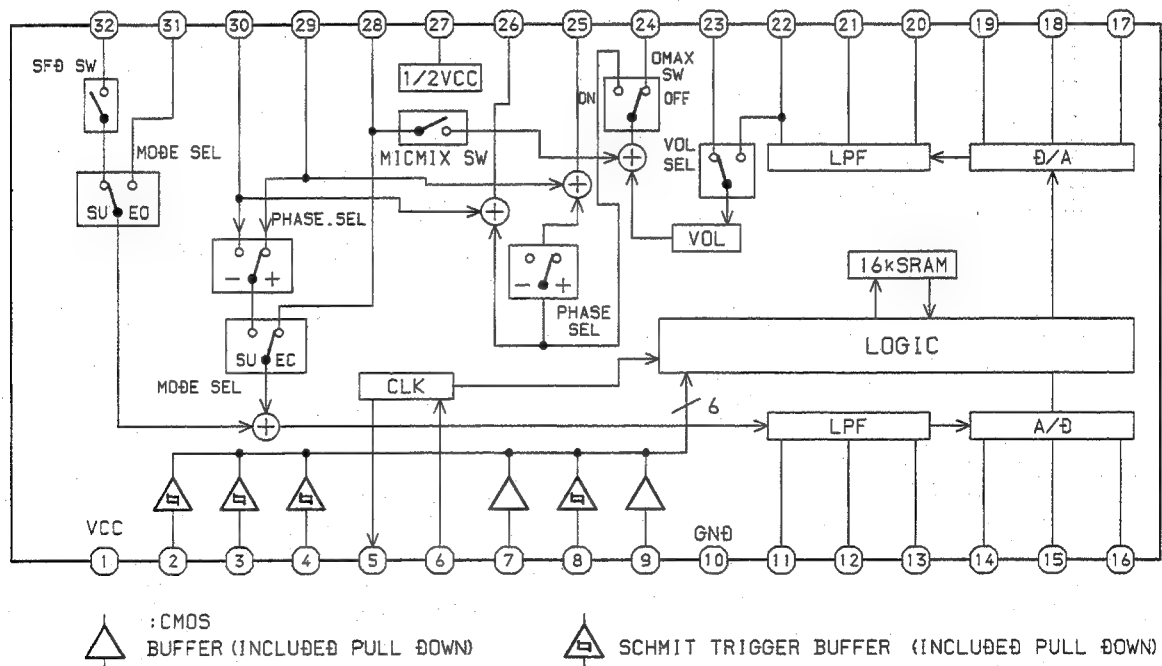
# IC, LA1831M



# IC, NJM2177AF

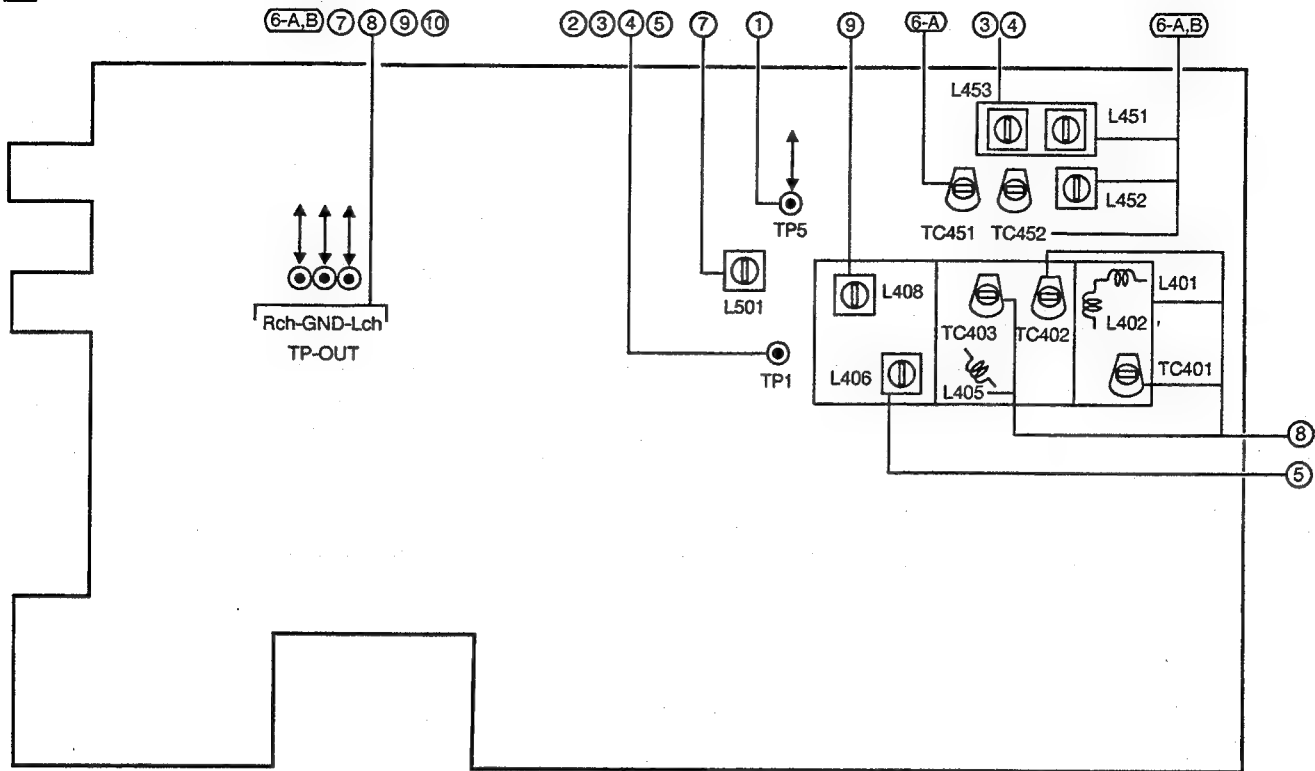


# IC, M65846FP-600D



## ADJUSTMENT <TUNER SECTION>

### A MAIN C.B



### < TUNER SECTION >

#### 1. Clock Frequency Adjustment

Settings : •Test point : TP5

Method : Set to MW 1602kHz (HE,HK,HR,K,E,EZ,EEZ), 1710kHz (LH,U) and check that the test point is 2052kHz  $\pm$  0.05kHz (HE,HR,K,E,EZ,EEZ), 2160kHz  $\pm$  0.05kHz (LH,U).

#### 2. MW VT Check (HE,HK,HR,LH,U only)

Settings : •Test point : TP1

Method : Set to MW 531kHz (HE,HK,HR), 530kHz (LH,U) and check that the test point is 1.1V  $\pm$  0.2V (LH).

#### 3. MW VT Adjustment (E,EZ,EEZ,K only)

Settings : •Test point : TP1

•Adjustment location : L453

Method : Set to MW 531kHz and adjust L453 so that the test point becomes 1.1V  $\pm$  0.2V.

#### 4. LW VT Adjustment (E,EZ,EEZ,K only)

Settings : •Test point : TP1

Method : Set to LW 144kHz so that the test point becomes 1.3V  $\pm$  0.05V.

#### 5. FM VT Adjustment

Settings : •Test point : TP1

•Adjustment location : L406

Method : Set to FM 108MHz and adjust L406 so that the test point becomes 9.4V  $\pm$  0.05V.

#### 6A. MW Tracking Adjustment (E,EZ,EEZ,K)

Settings : •Test point : TP-OUT

•Adjustment location : L451

MW

L451.....603kHz

TC451.....1404kHz

Method : Set up TC451 to center before adjustment. The level at 603kHz is adjusted to MAX by L451. Then the level at 1404kHz is adjusted to MAX by TC451.

After adjustment, proceed the MW tracking check.

Set to MW 999kHz (E,EZ,EEZ,K), MW 1000kHz (LH,U) and check that the test point is less than 59dB.

#### 6B. LW Tracking Adjustment (E,EZ,EEZ,K)

L452.....144kHz

TC452.....299kHz

Method : Set up TC452 to center before adjustment. The level at 144kHz is adjusted to MAX by L452. Then the level at 299kHz is adjusted to MAX by TC452.

#### 7. MW/LW IF Adjustment

Settings : •Test point : TP-IF

L501.....450kHz

#### 8. FM Tracking Adjustment

Settings : •Test point : TP-OUT

•Adjustment location :

TC401,TC402.....108MHz

TC403.....108MHz (E,EZ,EEZ,K only)

L401,L402.....87.5MHz

L405.....87.5MHz (E,EZ,EEZ,K only)

#### 9. FM IF Adjustment

Settings : •Test point : TP-OUT

L408.....98.0MHz

#### 10. FM Separation Check

Settings : •Test point : TP-OUT

Method : Set to FM 98.0MHz and check the separation at TP-OUT is more than 25dB.

## PRACTICAL SERVICE FIGURE

### <TUNER SECTION>

#### <FM SECTION>

IHF Sensitivity : 4dB  $\pm$  4dB (HE,HR,LH,U)  
(THD 3%) (at 87.5, 98.0, 108.0MHz)  
8dB  $\pm$  4dB (E,EZ,EEZ,K)  
(at 87.5, 98.0, 108.0MHz)

S/N 50dB Quieting sensitivity :  
(HE,HR,LH,U) Less than 36dB  
(87.5, 98.0, 108.0MHz)

S/N 46dB Quieting sensitivity :  
(E,EZ,EEZ,K) Less than 44dB  
(at 87.5, 98.0, 108.0MHz)

Signal to noise ratio : More than 64dB at 98.0MHz  
(HE,HR,LH,U)  
More than 59dB at 98.0MHz  
(E,EZ,EEZ,K)

Distortion : Less than 1.5%

Stereo separation : More than 25dB

Intermediate frequency : 10.7MHz

#### <MW SECTION>

Sensitivity : 56dB  $\pm$  5dB at 600kHz (LH,U)  
(S/N 20dB) 56dB  $\pm$  5dB at 603kHz (HE,HR)  
62dB  $\pm$  5dB at 603kHz (E,EZ,EEZ,K)  
53dB  $\pm$  5dB at 1000/1400kHz (LH,U)  
53dB  $\pm$  5dB at 999/1404kHz (HE,HR)  
55dB  $\pm$  5dB at 999/1404kHz  
(E,EZ,EEZ,K)

Distortion : Less than 1.6% at 1000kHz

Intermediate frequency : 450kHz

#### <LW SECTION> (E,EZ,EEZ,K only)

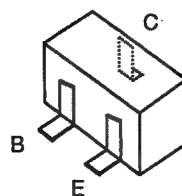
Sensitivity : 65dB  $\pm$  5dB (at 144kHz)  
(S/N 20dB) 62dB  $\pm$  5dB (at 198kHz)

60dB  $\pm$  5dB (at 290kHz)

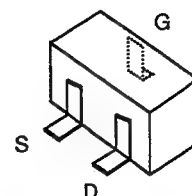
Distortion : Less than 1.5% (at 198kHz)

Intermediate frequency : 450kHz

## TRANSISTOR ILLUSTRATION



DTA114EK/TK/YK  
DTA143XK  
DTC114EK/TK/YK  
DTC143XK  
2SC3326B  
2SC2712GR  
2SC2714 (O)  
2SA1162GR



2SK209Y



E C B

2SA1296GR  
2SC1740S



B C E

2SB1370E



B C E

DTA114TK  
2SC1740S



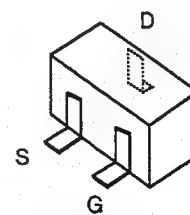
E C B

2SA1318TU  
2SA1015GR  
2SC3331TU  
2SC1815GR  
2SC3266GR



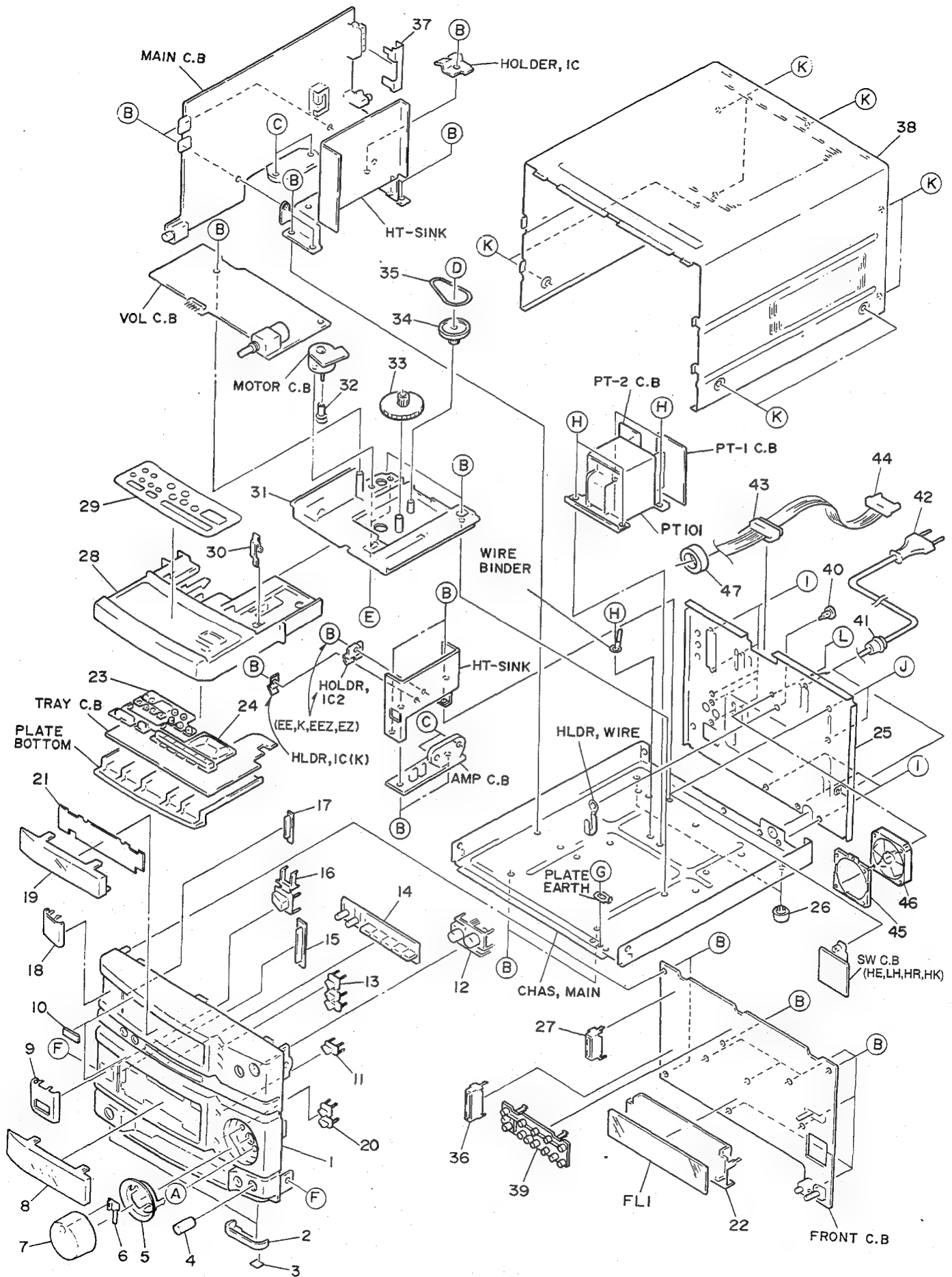
E C B

2SD2005



2SK360E

# MECHANICAL EXPLODED VIEW 1/1



# MECHANICAL PARTS LIST 1/1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NT1-002-019		CAB,FR E<K,EE,EEZ,EZ,LH>	29	85-NT1-024-019		PLATE,TRAY H<HE,HR,HK>
1	85-NT1-001-019		CAB,FR H<HE,HR,HK>	30	81-MT3-211-019		LEVER,OPEN
1	85-NT1-003-019		CAB,FR U<U>	31	82-NT1-203-319		HLDR,TRAY
2	82-NT1-036-019		RING,FOOT	32	80-VW1-204-010		PULLEY,MOTOR
3	80-VT1-202-019		FELT,12.5-15.5-2	33	82-NT1-204-01K		GEAR,LOADING
4	80-MT3-014-019		KNOB,MIC	34	82-NT1-205-11K		PULLEY,LOADING
5	85-NT1-008-019		RING,VOL	35	80-VW1-217-010		BELT,SQ 1.5
6	82-NE6-016-019		IND,MAIN VOL	36	82-NT1-207-019		GUIDE,LED
7	85-NT1-012-019		KNOB,VOL	37	87-033-214-019		ANT TERM 4P JT<HE,U,LH,HR,HK>
8	82-NT1-028-019		WINDOW,AMP	37	81-631-646-019		ANT TERM 2P PAL<K,EE,EEZ,EZ>
9	82-NT1-045-019		DUMMY,POWER	38	83-NT1-013-019		CAB,STEEL<HE,LH,HK>
10	81-MX4-032-019		BADGE,AIWA N	38	83-NT1-014-019		CAB,STEEL HI<EXCEPT HE,LH,HK>
11	85-NT1-011-019		KEY,DSP	39	85-NT1-201-019		GUIDE,LED
12	82-NT1-018-010		KEY,UP/DOWN	40	87-084-077-019		NYLON RIVET DIA 3.5 - 4.5
13	85-NT1-009-019		KEY,TU	41	87-085-185-010		BUSHING,AC CORD E<EXCEPT U>
14	82-NT1-020-019		KEY,FUN	41	87-085-189-010		BUSHING,CORD U<U>
15	82-NT1-026-019		IND,AMP	△ 42	87-050-100-019		AC CORD ASSY K3P<K>
16	82-NT1-015-019		KEY,POWER	△ 42	87-050-034-019		AC CORD ASSY,E<EXCEPT K,U>
17	82-NT1-027-019		IND,TU	△ 42	87-050-053-019		AC CORD ASSY,U-2<U>
18	82-NT1-017-019		DUMMY	△ 42	87-099-811-018		PLUG ADAPTOR CONV (K)<HK>
19	82-NT2-016-119		WINDOW TU 2	43	89-VT5-202-019		BUSHING,CORD
20	85-NT1-010-019		KEY,OPEN	44	82-NT1-664-019		CORD,FG 15P
21	85-NT1-007-019		PLATE,DISPLAY	45	83-NT1-204-019		HLDR,FAN<EXCEPT HE,LH,HK>
22	81-DS2-204-219		GUIDE,FL	46	87-045-365-010		FAN,MOT F614R-12MC<EXCEPT HE,LH,HK>
23	82-NT2-018-119		KEY,GE 2<EXCEPT HE,HR,HK>	47	87-003-317-019		F-BEAD FOH2515-LG7)<K,EE,EEZ,EZ>
23	85-NT1-025-019		KEY,GE H<HE,HR,HK>	A	87-067-703-019		BVT2+3-10(W/O SLOT)
24	82-NT1-022-119		KEY,T-BASS	B	87-067-579-019		BVT 2+3-8 W/O SLOT
25	85-NT1-018-019		PANEL,REAR EZBN<EEZ,EZ>	C	87-067-581-019		BVT2+3-15W/O SLOT
25	85-NT1-013-019		PANEL,REAR HEJBN<HE>	D	87-861-095-419		VFT2+3-8 SLOT
25	85-NT1-014-019		PANEL,REAR HRJBN<HR>	E	87-261-073-419		V+2.6-6
25	85-NT1-017-019		PANEL,REAR KBN<K>	F	87-591-094-419		QIT+3-6GLD
25	85-NT1-015-019		PANEL,REAR LHBN<LH>	G	87-571-093-419		VIT+3-5
25	85-NT1-016-019		PANEL,REAR UBN<U>	H	87-078-019-019		S-SCREW,IT+4-6
25	85-NT1-026-019		PANEL,REAR EEBN<EE>	I	87-067-660-019		BVT2+3-8W/O SLOT BLK
25	85-NT1-027-019		PANEL,REAR HKJBN<HK>	J	80-VP2-202-019		SPECIAL SCREW VT2BLK<HE,LH,HR,HK>
26	87-085-213-019		FOOT,H12.5	K	87-067-641-019		UTT2+3-8 W/O SLOT BLK
27	82-NT1-219-019		GUIDE,LED 2	L	87-263-102-419		V+3-20(1SD) BLK<EXCEPT HE,LH,HK>
28	85-NT1-005-019		CAB,TRAY E<K,EE,U,EEZ,EZ>				
28	85-NT1-004-019		CAB,TRAY H<HE,LH,HR,HK>				
29	85-NT1-006-019		PLATE,TRAY<EXCEPT HE,HR,HK>				

MODEL NO.

# FD-N858

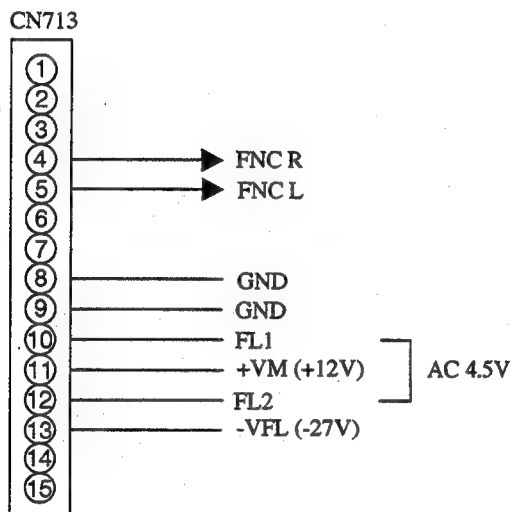
## CAUTIONS WHEN SERVICING

FD-N858 do not have a power . These equipment use a 15 pin flat cable to receive the power supply and to output and input signals  
When repairing, connect it to RX-N858.

If there is no RX-N858, repair it as follows. (Although it is possible to dub a tape, it is not possible to record from a CD or another external device.)

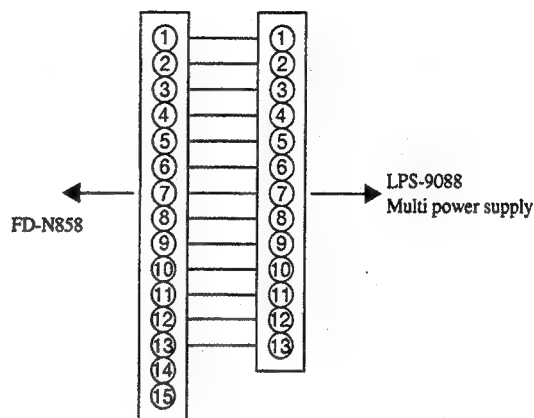
[ Repairing a single machine. ]

1. Supply the following voltage to each terminal from the external power

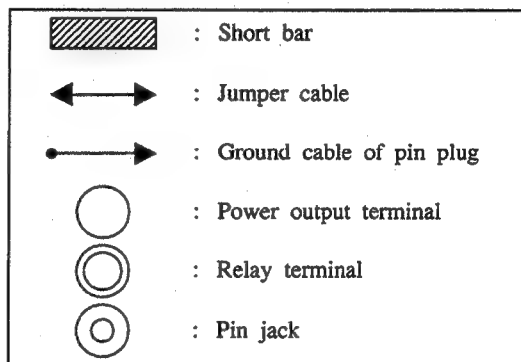


2. Multi Power Connection diagram (LPS-9088)

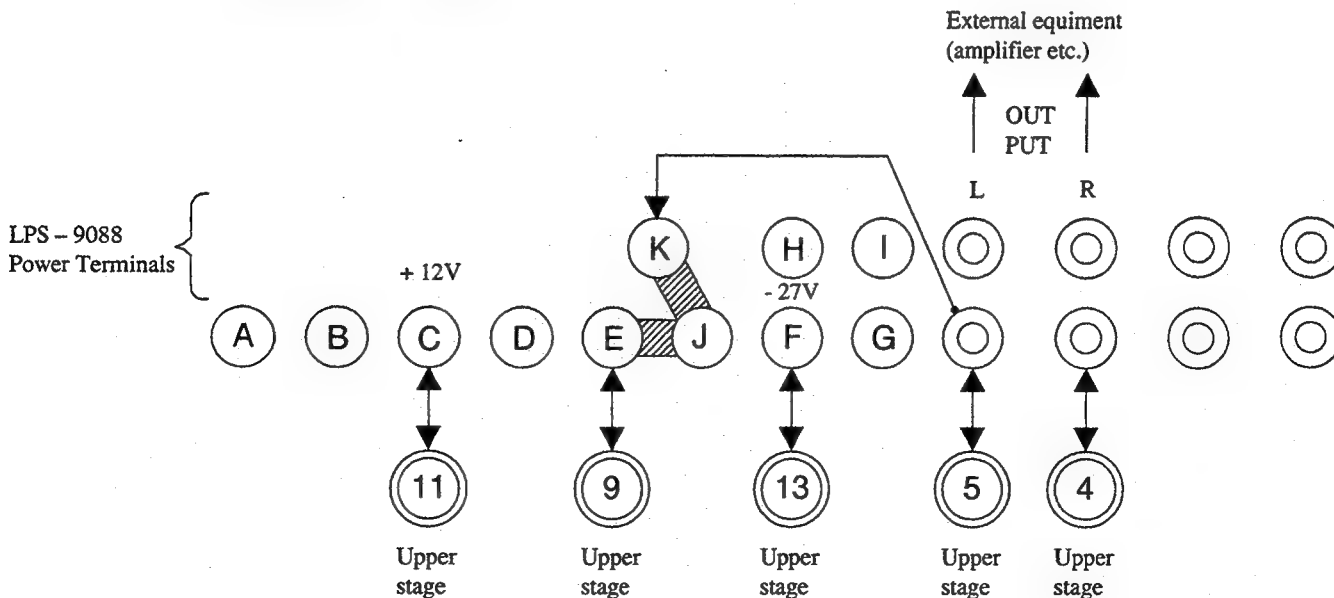
- Connect the harness which is connected to CORD FG 15P and CONNECTOR ASSY 13P to J1.



Connect a multi - conversion harness.



Connection of multi-conversion harness diagram.  
(Because AC 4.5V is not supplied, FL does not light.)



[ How to turn on the power ]

Press the DECK STOP key while holding down the CD PLAY key.



## PROTECTION OF EYES WHEN SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

### WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

### VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainituulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

### WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass 1.

### CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### ATTENTION

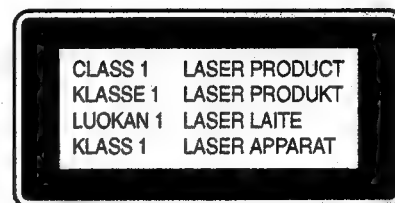
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

### ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

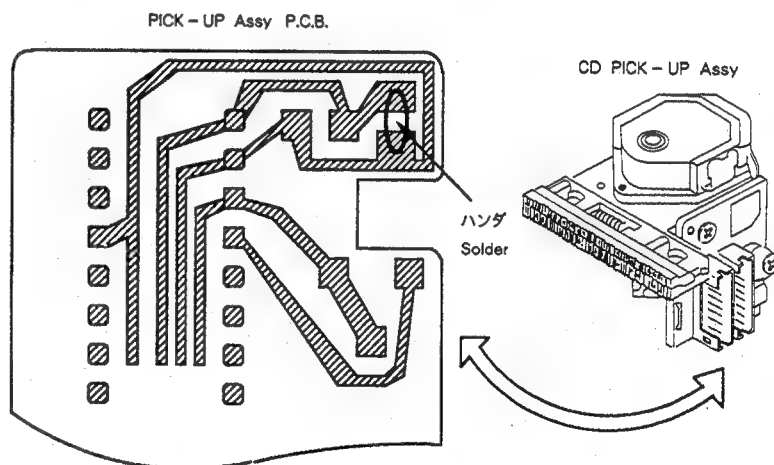


## PRECAUTION TO REPLACE OPTICAL BLOCK

(KSS - 210A)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in figure below.



# ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

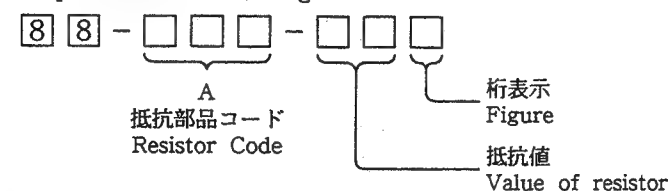
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C21	87-010-382-080		CAP,E 22-25 SME
	87-020-793-080	IC,CXA1081M		C22	87-010-401-080		CAP,E 1-50 SME
	87-020-794-110	IC,CXA1082BQ		C24	87-010-197-080		C-CAP,S 0.01-25 B
	87-001-944-010	IC,CXD1167Q		C25	87-010-263-080		CAP,E 100-10 SME 5X11
	87-017-486-080	IC,BA6397FP		C26	87-010-197-080		C-CAP,S 0.01-25 B
	87-017-194-010	IC,PLT104		C27	87-010-263-080		CAP,E 100-10 SME 5X11
	87-020-618-310	IC,DM6851		C28	87-010-197-080		C-CAP,S 0.01-25 B
	87-017-022-080	IC,NJM2068M-D(T1)		C29	87-010-404-080		CAP,E 4.7-50 SME
	87-017-822-080	IC,SM5875BM		C30	87-010-374-080		CAP,E 47-10
	87-001-224-080	IC,NJU4066BM		C31	87-010-178-080		C-CAP,S 1000P-50 B
	82-NV1-625-210	IC,UPD78043GF-063		C32	87-010-184-080		C-CAP,S 3300P-50 B
	87-002-394-010	IC,LB1641		C33	87-010-193-080		C-CAP,S 0.033-25 F
	87-001-607-080	IC,NJM4558M		C34	87-010-400-080		CAP,E 0.47-50 SME
	87-017-726-080	IC,BU4052BCF		C35	87-010-197-080		C-CAP,S 0.01-25 B
	87-001-908-010	IC,CXA1332S		C36	87-010-196-080		C-CAP,S 0.1-25 F
	87-002-872-080	IC,MC14053BF		C37	87-010-404-080		CAP,E 4.7-50 SME
	87-020-730-080	IC,TC4069UBF		C38	87-010-263-080		CAP,E 100-10 SME 5X11
	87-017-915-080	IC,BU4094BCF		C39	87-010-196-080		C-CAP,S 0.1-25 F
				C40	87-010-193-080		C-CAP,S 0.033-25 F
				C41	87-010-221-080		CAP,E 470-10
TRANSISTOR				C42	87-010-316-080		C-CAP,S 33P-50 CH
	87-026-463-010	TR,2SA933S		C43	87-010-221-080		CAP,E 470-10
	89-109-521-080	TR,2SA952K		C44	87-010-197-080		C-CAP,S 0.01-25 B
	89-327-125-080	C-TR,2SC2712GR		C45	87-010-248-080		CAP,E 220-10 SME
	87-026-210-080	C-TR,DTC144EK T147		C46	87-010-197-080		C-CAP,S 0.01-25 B
	87-026-238-080	C-TR,DTC144WK		C47	87-010-196-080		C-CAP,S 0.1-25 F
	89-113-625-080	C-TR,2SA1362GR(TAPG)		C48	87-010-196-080		C-CAP,S 0.1-25 F
	89-213-702-010	TR,2SB1370E		C49	87-010-196-080		C-CAP,S 0.1-25 F
	89-333-317-880	TR,2SC3331TU		C50	87-010-196-080		C-CAP,S 0.1-25 F
	89-320-011-080	TR,2SC2001K		C52	87-010-263-080		CAP,E 100-10 SME 5X11
	89-503-685-080	C-FET,2SK368GR		C53	87-010-197-080		C-CAP,S 0.01-25 B
	87-026-233-080	C-TR,DTA114TK		C54	87-010-314-080		C-CAP,S 22P-50 CH
	89-333-266-080	C-TR,2SC3326B		C55	87-010-314-080		C-CAP,S 22P-50 CH
	87-026-608-080	C-TR,DTC123JK		C101	87-010-263-080		CAP,E 100-10 SME 5X11
	87-026-228-080	C-TR DTA124EK		C102	87-010-196-080		C-CAP,S 0.1-25 F
	89-318-155-080	TR,2SC1815GR		C103	87-010-221-080		CAP,E 470-10
				C104	87-010-196-080		C-CAP,S 0.1-25 F
				C105	87-010-196-080		C-CAP,S 0.1-25 F
DIODE				C106	87-010-316-080		C-CAP,S 33P-50 CH
	87-020-465-080	DIODE,1SS133		C107	87-010-316-080		C-CAP,S 33P-50 CH
	87-017-097-080	ZENER,HZS6B1		C108	87-010-197-080		C-CAP,S 0.01-25 B
	87-002-608-080	DIODE,DSF10TC		C109	87-010-178-080		C-CAP,S 1000P-50 B
	87-017-121-080	ZENER,HZS11A1		C110	87-010-178-080		C-CAP,S 1000P-50 B
	87-020-123-080	DIODE,DS446-AT (TA)		C111	87-012-140-080		C-CAP,S 470P-50 CH
	87-001-290-080	ZENER,HZS6B1L		C112	87-012-140-080		C-CAP,S 470P-50 CH
	87-001-559-080	DIODE,ISS131 (T-72)		C115	87-010-405-080		CAP,E 10-50 SME
				C116	87-010-405-080		CAP,E 10-50 SME
				C117	87-012-157-080		C-CAP,S 330P-50 CH
				C118	87-012-157-080		C-CAP,S 330P-50 CH
				C125	87-010-196-080		C-CAP,S 0.1-25 F
CD C.B				C201	87-010-263-080		CAP,E 100-10 SME 5X11
C1	87-010-184-080	C-CAP,S 3300P-50 B		C202	87-010-196-080		C-CAP,S 0.1-25 F
C2	87-010-263-080	CAP,E 100-10 SME 5X11		C203	87-010-401-080		CAP,E 1-50 SME
C3	87-010-178-080	C-CAP,S 1000P-50 B		C204	87-010-405-080		CAP,E 10-50 SME
C4	87-010-374-080	CAP,E 47-10		C205	87-010-405-080		CAP,E 10-50 SME
C5	87-010-248-080	CAP,E 220-10 SME		C206	87-010-405-080		CAP,E 10-50 SME
C6	87-010-197-080	C-CAP,S 0.01-25 B		C207	87-010-196-080		C-CAP,S 0.1-25 F
C7	87-010-193-080	C-CAP,S 0.033-25 F		C208	87-010-178-080		C-CAP,S 1000P-50 B
C8	87-010-193-080	C-CAP,S 0.033-25 F		C209	87-010-178-080		C-CAP,S 1000P-50 B
C9	87-010-197-080	C-CAP,S 0.01-25 B		C211	87-010-235-080		CAP,E 470-16 SME
C10	87-010-400-080	CAP,E 0.47-50 SME		C212	87-010-197-080		C-CAP,S 0.01-25 B
C11	87-010-248-080	CAP,E 220-10 SME		C213	87-010-196-080		C-CAP,S 0.1-25 F
C12	87-010-197-080	C-CAP,S 0.01-25 B		C214	87-010-197-080		C-CAP,S 0.01-25 B
C13	87-010-197-080	C-CAP,S 0.01-25 B		C216	87-010-382-080		CAP,E 22-25 SME
C14	87-010-193-080	C-CAP,S 0.033-25 F		C301	87-010-237-080		CAP,E 1000-16
C15	87-010-197-080	C-CAP,S 0.01-25 B		C302	87-010-178-080		C-CAP,S 1000P-50 B
C16	87-010-184-080	C-CAP,S 3300P-50 B		C303	87-010-221-080		CAP,E 470-10
C17	87-010-196-080	C-CAP,S 0.1-25 F		C304	87-010-178-080		C-CAP,S 1000P-50 B
C18	87-010-193-080	C-CAP,S 0.033-25 F		C305	87-010-263-080		CAP,E 100-10 SME 5X11
C19	87-010-405-080	CAP,E 10-50 SME		C306	87-010-075-080		CAP,E 10-16 5L
C20	87-010-196-080	C-CAP,S 0.1-25 F					

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C307	87-010-405-080		CAP,E 10-50 SME	C204	87-010-318-080		C-CAP,S 47P-50 CH
C308	87-010-075-080		CAP,E 10-16 5L	C205	87-010-426-080		C-CAP,S 0.012-25 B
C309	87-010-196-080		C-CAP,S 0.1-25 F	C206	87-010-426-080		C-CAP,S 0.012-25 B
C501	87-010-196-080		C-CAP,S 0.1-25 F	C207	87-012-156-080		C-CAP,S 220P-50 CH
C502	87-010-196-080		C-CAP,S 0.1-25 F	C208	87-012-156-080		C-CAP,S 220P-50 CH
C503	87-010-196-080		C-CAP,S 0.1-25 F	C211	87-010-404-080		CAP,E 4.7-50 SME
C504	87-010-196-080		C-CAP,S 0.1-25 F	C212	87-010-404-080		CAP,E 4.7-50 SME
C505	87-010-374-080		CAP,E 47-10	C213	87-010-101-080		CAP,E 220-16 SME
C506	87-010-221-080		CAP,E 470-10	C214	87-010-197-080		C-CAP,S 0.01-25 B
C507	87-010-384-080		CAP,E 100-25 SME	C215	87-010-197-080		C-CAP,S 0.01-25 B
C508	87-010-075-080		CAP,E 10-16 5L	C216	87-018-209-080		CAP,TC-U 0.1-50 F<Y>
C509	87-010-075-080		CAP,E 10-16 5L	C217	87-018-209-080		CAP,TC-U 0.1-50 F<Y>
C510	87-010-197-080		C-CAP,S 0.01-25 B	C301	87-010-322-080		C-CAP,S 100P-50 CH
C511	87-012-154-080		C-CAP,S 150P-50 CH	C302	87-010-322-080		C-CAP,S 100P-50 CH
C512	87-012-154-080		C-CAP,S 150P-50 CH	C303	87-010-183-080		C-CAP,S 2700P-50 B
C513	87-010-321-080		C-CAP,S 82P-50 CH	C304	87-010-183-080		C-CAP,S 2700P-50 B
C514	87-010-321-080		C-CAP,S 82P-50 CH	C305	87-010-404-080		CAP,E 4.7-50 SME
C515	87-012-157-080		C-CAP,S 330P-50 CH	C306	87-010-404-080		CAP,E 4.7-50 SME
C516	87-012-157-080		C-CAP,S 330P-50 CH	C323	87-012-157-080		C-CAP,S 330P-50 CH
C517	87-010-316-080		C-CAP,S 33P-50 CH	C324	87-012-157-080		C-CAP,S 330P-50 CH
C518	87-010-316-080		C-CAP,S 33P-50 CH	C401	87-012-156-080		C-CAP,S 220P-50 CH
C519	87-010-316-080		C-CAP,S 33P-50 CH	C402	87-012-156-080		C-CAP,S 220P-50 CH
C521	87-010-178-080		C-CAP,S 1000P-50 B	C403	87-014-071-080		CAP,PP 3900P-100 J
C522	87-010-178-080		C-CAP,S 1000P-50 B	C405	87-010-263-080		CAP,E 100-10 SME 5X11
C529	87-012-154-080		C-CAP,S 150P-50 CH	C409	87-010-402-080		CAP,E 2.2-50 SME
C530	87-012-154-080		C-CAP,S 150P-50 CH	C410	87-010-405-080		CAP,E 10-50 SME
FL601	82-NV1-626-010		FL,8-ST-15G	C451	87-010-178-080		C-CAP,S 1000P-50 B
J501	81-VP1-634-010		JACK,PIN 3P	C453	87-010-322-080		C-CAP,S 100P-50 CH
J502	81-VP1-634-010		JACK,PIN 3P	C454	87-010-322-080		C-CAP,S 100P-50 CH
J503	81-VP1-635-010		JACK,PIN 3P EARTH	C455	87-010-197-080		C-CAP,S 0.01-25 B
L1	87-003-102-080		COIL,10UH	C456	87-010-197-080		C-CAP,S 0.01-25 B
L101	87-003-102-080		COIL,10UH	C501	87-012-158-080		C-CAP,S 390P-50 CH
L201	87-003-102-080		COIL,10UH	C502	87-012-158-080		C-CAP,S 390P-50 CH
L202	87-003-143-080		COIL,4.7UH	C503	87-010-182-080		C-CAP,S 2200P-50 B
L203	87-003-143-080		COIL,4.7UH	C504	87-010-182-080		C-CAP,S 2200P-50 B
L501	87-008-474-080		F-BEAD,EMI BL02RN1	C505	87-010-404-080		CAP,E 4.7-50 SME
L502	87-003-102-080		COIL,10UH	C506	87-010-404-080		CAP,E 4.7-50 SME
L503	87-003-102-080		COIL,10UH	C507	87-010-182-080		C-CAP,S 2200P-50 B
L504	87-003-102-080		COIL,10UH	C508	87-010-182-080		C-CAP,S 2200P-50 B
M401	87-045-305-010		MOT,RF-500TB	C509	87-010-182-080		C-CAP,S 2200P-50 B
R25	87-022-396-080		C-RES,S 3.6K-1/10WF	C510	87-010-182-080		C-CAP,S 2200P-50 B
R33	87-022-214-080		C-RES,S 100K-1/10WF	C511	87-010-825-080		CAP,E 0.56/50V,SME
R34	87-022-214-080		C-RES,S 100K-1/10WF	C512	87-010-825-080		CAP,E 0.56/50V,SME
SFR1	87-024-173-080		SFR,22K DIA6 V	C513	87-010-546-080		CAP,E 0.33-50 SME
SFR2	87-024-173-080		SFR,22K DIA6 V	C514	87-010-546-080		CAP,E 0.33-50 SME
SFR3	87-024-173-080		SFR,22K DIA6 V	C515	87-010-404-080		CAP,E 4.7-50 SME
SFR4	87-024-168-080		SFR,1K DIA6 V	C516	87-010-404-080		CAP,E 4.7-50 SME
VR501	81-MX4-636-010		VR,50KBX2 RK14K12AO	C517	87-010-371-080		CAP,E 470-6.3
X101	87-030-270-080		VIB,XTAL 16.9344MHZ	C518	87-010-101-080		CAP,E 220-16 SME
X201	87-008-394-080		CF CST 4.19 MGW	C519	87-010-404-080		CAP,E 4.7-50 SME
DECK C.B				C520	87-010-404-080		CAP,E 4.7-50 SME
C101	87-012-158-080		C-CAP,S 390P-50 CH	C521	87-010-179-080		C-CAP,S 1200P-50 B
C102	87-012-158-080		C-CAP,S 390P-50 CH	C522	87-010-179-080		C-CAP,S 1200P-50 B
C103	87-010-318-080		C-CAP,S 47P-50 CH	C523	87-010-382-080		CAP,E 22-25 SME
C104	87-010-318-080		C-CAP,S 47P-50 CH	C601	87-010-178-080		C-CAP,S 1000P-50 B
C105	87-010-426-080		C-CAP,S 0.012-25 B	C602	87-010-186-080		C-CAP,S 4700P-50 B
C106	87-010-426-080		C-CAP,S 0.012-25 B	C603	87-010-149-080		C-CAP,S 5P-50 CH
C109	87-012-154-080		C-CAP,S 150P-50 CH	C604	87-010-182-080		C-CAP,S 2200P-50 B
C110	87-012-154-080		C-CAP,S 150P-50 CH	C605	87-010-149-080		C-CAP,S 5P-50 CH
C111	87-010-404-080		CAP,E 4.7-50 SME	C606	87-012-154-080		C-CAP,S 150P-50 CH
C112	87-010-404-080		CAP,E 4.7-50 SME	C607	87-010-400-080		CAP,E 0.47-50 SME
C113	87-010-404-080		CAP,E 4.7-50 SME	C608	87-010-382-080		CAP,E 22-25 SME
C114	87-010-404-080		CAP,E 4.7-50 SME	C609	87-010-374-080		CAP,E 47-10
C115	87-010-101-080		CAP,E 220-16 SME	C801	87-010-404-080		CAP,E 4.7-50 SME
C116	87-010-197-080		C-CAP,S 0.01-25 B	C802	87-010-381-080		CAP,E 330-16 SME
C117	87-015-819-080		C-CAP 0.01	C803	87-010-101-080		CAP,E 220-16 SME
C201	87-012-158-080		C-CAP,S 390P-50 CH	C804	87-010-237-080		CAP,E 1000-16
C202	87-012-158-080		C-CAP,S 390P-50 CH	C805	87-010-198-080		C-CAP,S 0.022-25 B
C203	87-010-318-080		C-CAP,S 47P-50 CH	C902	87-010-405-080		CAP,E 10-50 SME
				L301	87-005-525-080		COIL,22MH-J


REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L302	87-005-525-080		COIL, 22MH-J	KEY-1 C.B			
L303	87-003-131-080		COIL, 10MH J	D601	87-001-123-080		LED, SLZ 981C-02TI
L304	87-003-131-080		COIL, 10MH J	D602	87-017-369-080		LED, SEL2510C TP-6
L305	87-003-123-080		COIL, 2.2MH J	D603	87-017-369-080		LED, SEL2510C TP-6
L306	87-003-123-080		COIL, 2.2MH J	D604	87-017-369-080		LED, SEL2510C TP-6
L401	80-VW1-605-110		COIL, OSC BIAS 108K	D605	87-017-369-080		LED, SEL2510C TP-6
L801	87-005-474-080		COIL, 12UH J FLR50	D606	87-017-369-080		LED, SEL2510C TP-6
R913	87-025-470-080		RES, NF3.3-1/4W J	D607	87-017-369-080		LED, SEL2510C TP-6
SFR101	87-024-349-080		SFR, 1K DIA6 H	SW501	87-036-215-080		SW, TACT EVQ21404M
SFR102	87-024-349-080		SFR, 1K DIA6 H	SW502	87-036-215-080		SW, TACT EVQ21404M
SFR201	87-024-349-080		SFR, 1K DIA6 H	SW503	87-036-215-080		SW, TACT EVQ21404M
SFR202	87-024-349-080		SFR, 1K DIA6 H	SW504	87-036-215-080		SW, TACT EVQ21404M
SFR301	87-024-352-080		SFR, 4.7K DIA6 H	SW505	87-036-215-080		SW, TACT EVQ21404M
SFR302	87-024-352-080		SFR, 4.7K DIA6 H	SW506	87-036-215-080		SW, TACT EVQ21404M
SFR401	87-024-356-080		SFR, 47K DIA6 H	SW507	87-036-215-080		SW, TACT EVQ21404M
SFR402	87-024-356-080		SFR, 47K DIA6 H	SW508	87-036-215-080		SW, TACT EVQ21404M
DECK-1 C.B				SW509	87-036-215-080		SW, TACT EVQ21404M
SOL1	82-ZM1-618-010		SOL ASSY, 27	SW510	87-036-215-080		SW, TACT EVQ21404M
SW4	87-036-110-010		SW, PUSH SPBB 62	SW511	87-036-215-080		SW, TACT EVQ21404M
SW5	87-036-110-010		SW, PUSH SPBB 62	KEY-2 C.B			
SW6	87-036-110-010		SW, PUSH SPBB 62	D608	87-017-369-080		LED, SEL2510C TP-6
DECK-2 C.B				D609	87-017-369-080		LED, SEL2510C TP-6
SFR1	87-024-170-080		SFR, 3.3K DIA 6V	D610	87-017-369-080		LED, SEL2510C TP-6
SOL1	82-ZM1-618-010		SOL ASSY, 27	D611	87-017-369-080		LED, SEL2510C TP-6
SW1	87-036-110-010		SW, PUSH SPBB 62	SW512	87-036-215-080		SW, TACT EVQ21404M
SW2	87-036-110-010		SW, PUSH SPBB 62	SW513	87-036-215-080		SW, TACT EVQ21404M
SW3	87-036-110-010		SW, PUSH SPBB 62	SW514	87-036-215-080		SW, TACT EVQ21404M
SW4	87-036-110-010		SW, PUSH SPBB 62	SW515	87-036-215-080		SW, TACT EVQ21404M
SW5	87-036-110-010		SW, PUSH SPBB 62	SW516	87-036-215-080		SW, TACT EVQ21404M
RELAY-1 C.B				SW517	87-036-215-080		SW, TACT EVQ21404M
RELAY-2 C.B				KEY-3 C.B			
MOTOR C.B				SW518	87-036-215-080		SW, TACT EVQ21404M
M701	9X-262-513-210		SLED MOTOR ASSY	SW519	87-036-215-080		SW, TACT EVQ21404M
M702	9X-262-513-210		SLED MOTOR ASSY	SW520	87-036-215-080		SW, TACT EVQ21404M
PIN703	91-564-722-110		CONNECTOR 6P	SW521	87-036-215-080		SW, TACT EVQ21404M
SW701	91-572-085-110		LEAF SW	SW522	87-036-215-080		SW, TACT EVQ21404M
D-MO C.B				LED-1 C.B			
C215	87-010-196-080		C-CAP, S 0.1-25 F	D615	87-017-369-080		LED, SEL2510C TP-6
M402	87-045-305-010		MOT, RF-500TB	D616	87-017-369-080		LED, SEL2510C TP-6
SW OPEN C.B				LED-2 C.B			
SW402	87-036-271-010		SW, LVR 1-2-2 (*)	D617	87-017-369-080		LED, SEL2510C TP-6
SW-CLOSE C.B				D618	87-017-369-080		LED, SEL2510C TP-6
SW403	87-036-109-010		SW, PUSH SPBB 61	LED-3 C.B			
SW U/D C.B				D612	87-017-369-080		LED, SEL2510C TP-6
SW401	87-036-271-010		SW, LVR 1-2-2 (*)	D613	87-017-369-080		LED, SEL2510C TP-6
PHOTO C.B				D614	87-017-369-080		LED, SEL2510C TP-6
PH401	87-026-573-010		P-SNSR GP1S53V (*)	D619	87-020-109-010		LED, SLF-201C
				D620	87-020-109-010		LED, SLF-201C
				VOL C.B			
				VR502	82-SP1-607-019		VR, 50KAX2 SQ14

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

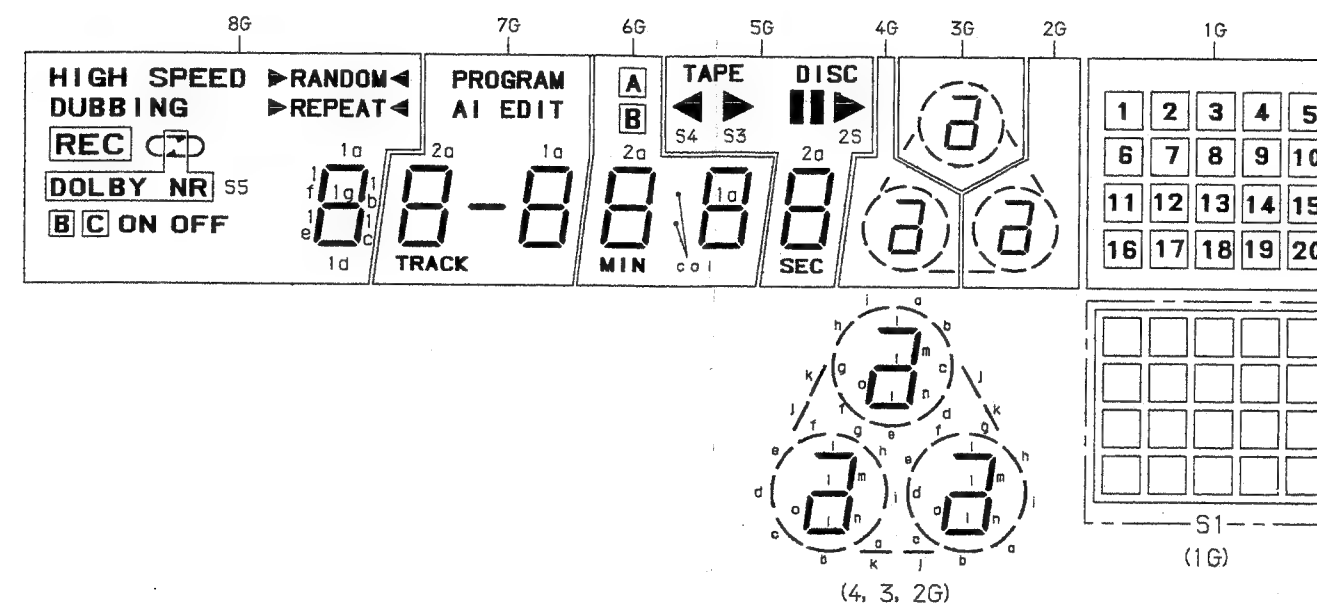
チップ抵抗部品コードの成り立ち  
Chip Resistor Part Coding



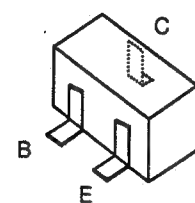
チップ抵抗  
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions/寸法 (mm)				Resistor Code : A 抵抗コード : A	
				Form/外形	L	W	t		
1/32W	1608	± 5 %	CJ		1.6	0.8	0.35	108	
1/10W	2125	± 5 %	CJ		2	1.25	1.45	118	
1/8W	3126	± 5 %	CJ		3.2	1.6	0.5 ~0.7	128	

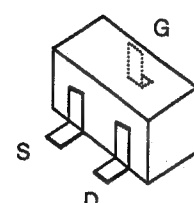
FL GRID ASSIGNMENT  
FL, 8-ST-15G



TRANSISTOR ILLUSTRATION



DTA114TK  
DTA124EK  
DTC123JK  
DTC144EK/WK  
2SA1236GR  
2SC2712GR  
2SC3326B



2SK368GR



ECB  
2SA952K  
2SC2001K  
2SC3331TU  
2SC1815GR



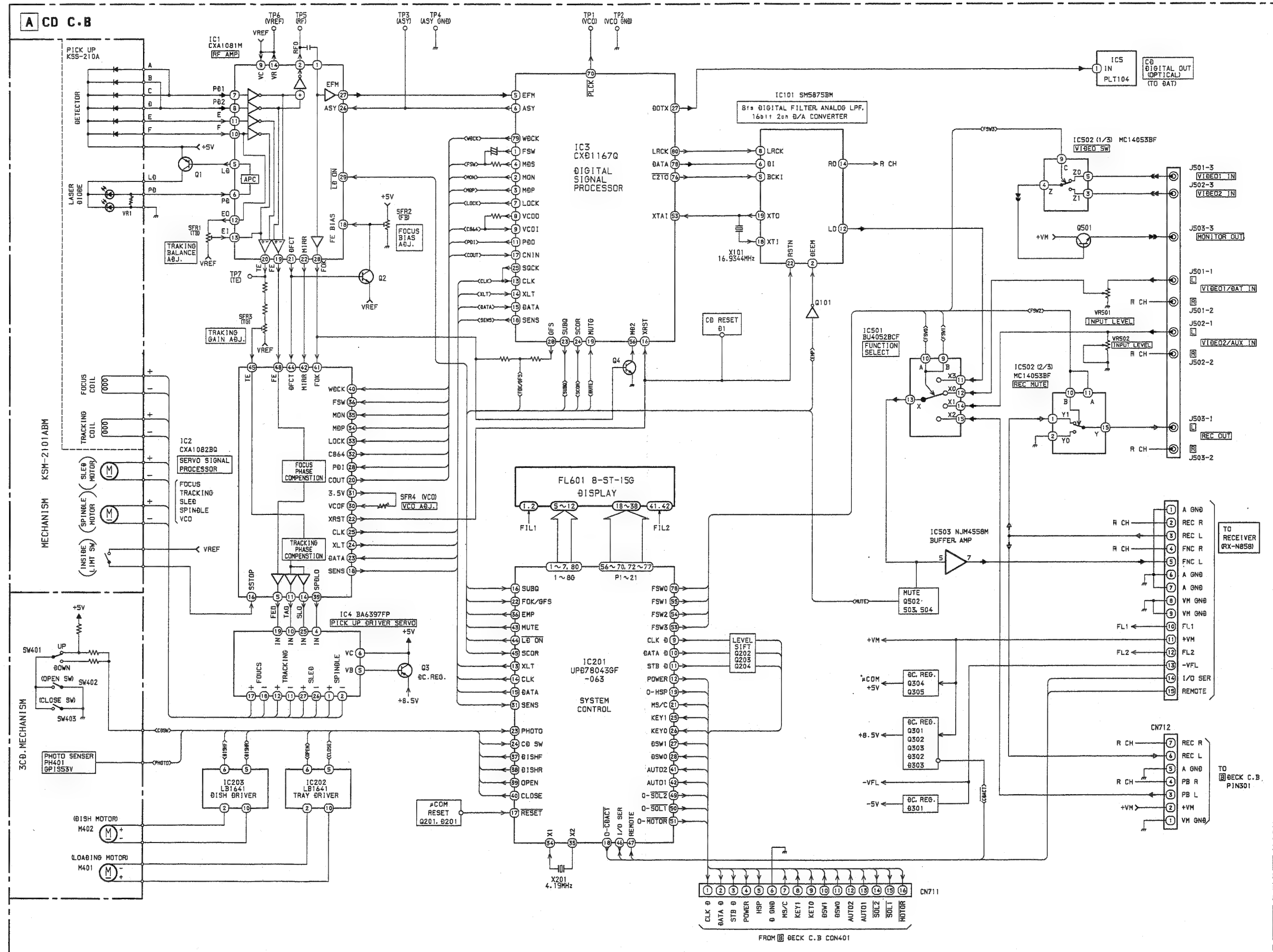
BCE  
2SB1370E



ECB  
2SA933S

ANODE CONNECTION

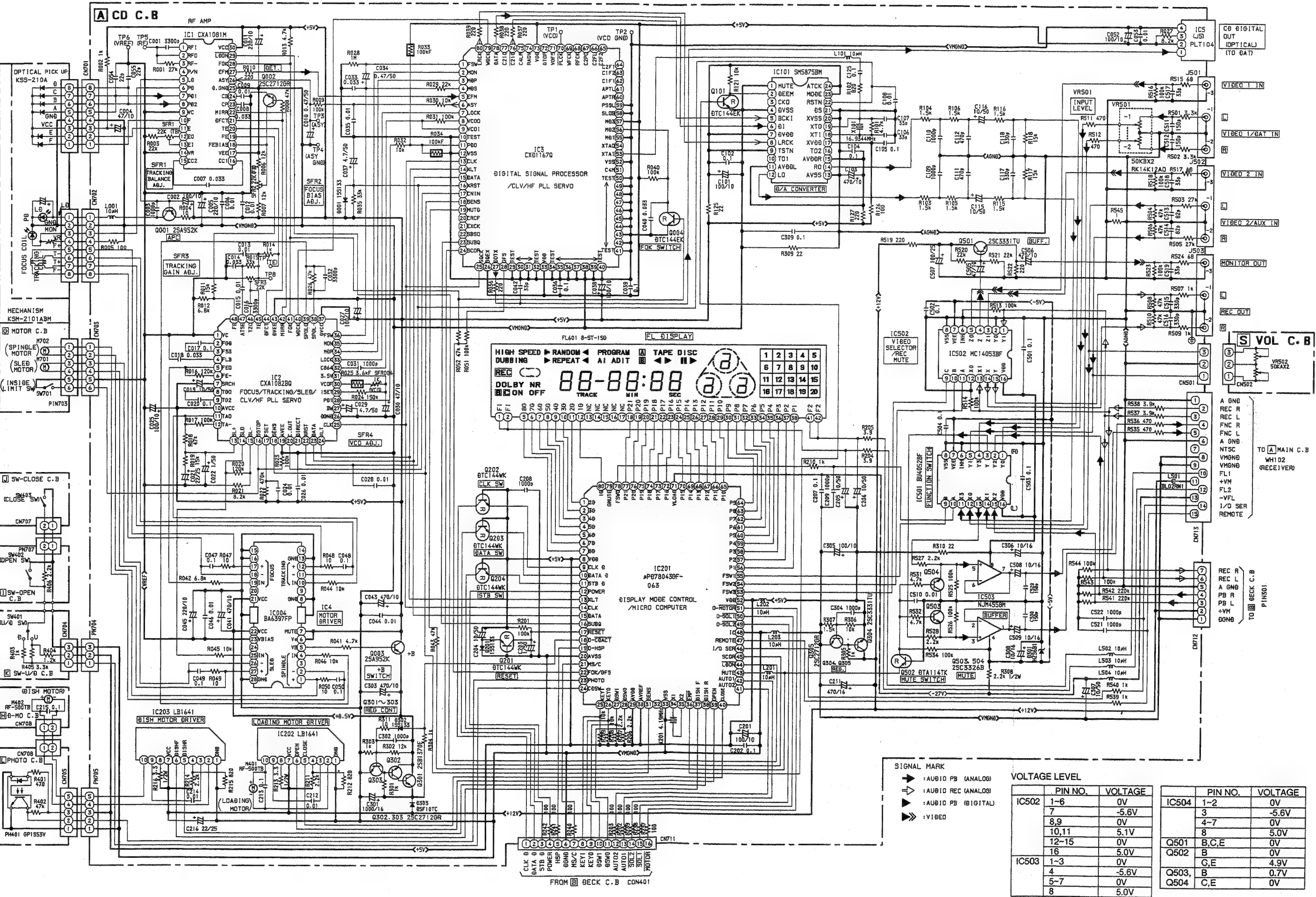
	8G	7G	6G	5G	4G	3G	2G	1G
P1	1a	1a	1a	TAPE	j	k	k	1
P2	1b	1b	1b	DISC	f	g	g	2
P3	1c	1c	1c		l	o	m	5
P4	1d	1d	1d	-	m	m	l	7
P5	1e	1e	1e	S2	o	l	n	6
P6	1f	1f	1f	S4	e	h	h	3
P7	1g	1g	1g	S3	g	f	f	4
P8	▶(RANDOM)◀	—	c o l	—	n	n	o	8
P9	RANDOM	2a	2a	2a	d	i	e	9
P10	▶(REPEAT)◀	2b	2b	2b	c	a	i	10
P11	DUBBING	2c	2c	2c	i	c	b	13
P12	)	2d	2d	2d	k	d	j	15
P13	REC	2e	2e	2e	a	e	a	14
P14	REPEAT	2f	2f	2f	h	b	d	11
P15	HIGH SPEED	2g	2g	2g	b	j	c	12
P16	C	TRACK	MIN	SEC	—	—	—	16
P17	S5	AI	B	—	—	—	—	17
P18	OFF	EDIT	A	—	—	—	—	18
P19	ON	PROGRAM	—	—	—	—	—	19
P20	C	—	—	—	—	—	—	20
P21	B	—	—	—	—	—	—	S1



















IC DESCRIPTION

IC,  $\mu$ PD78043GF-063

Pin No.	Pin Name	I/O	Description
1~7	2G~8G	O	Digit output for FL display.
8	VDD	-	Power supply terminal. (+5V)
9	CLK D	O	Serial data output to control the output port expansion IC (4094).
10	DATA D		
11	STB D		
12	POWER	O	"H" during POWER ON of the unit.
13	XLT	O	Serial data output to control the signal processing IC for CD.
14	CLK		
15	DATA		
16	SUBQ	I	Sub-code Q input.
17	RESET	I	System reset input.
18	O-CDACT	O	Output to control the power of CD circuit. "L" during CD function.
19	O-HSP	O	High speed control output to DECK. "H" during high speed dubbing.
20	AVSS	-	Ground.
21	MS/C	ADI	A/D input of MS signal and Dolby-B or B/C select detector from DECK.
22	FOK/GFS	ADI	A/D input of the focus OK signal and frame sync lock state display signal from CD.
23	PHOTO	ADI	Mechanism 3disc table position detect photo sensor signal input from CD.
24	CDSW	ADI	A/D input of mechanism tray and base unit position detect switches from CD.
25	KEY1	ADI	A/D input of key data from CD button.
26	KEY0	ADI	A/D input of key data from DECK button.
27	DSW1	ADI	A/D input of mechanism status detect switch from DECK.
28	DSW0	ADI	A/D input of mechanism status detect switch from DECK.
29	AVDD	-	Power supply terminal.
30	AVREF	I	Reference voltage. (+5V)
31	SENS	I	Internal state of CD signal processing IC.
32	-	-	-
33	VSS	-	Ground.
34	X1	I	4.19MHz clock oscillator input.
35	X2	-	4.19MHz clock oscillator input.
36	EMP	O	De-emphasis control output for CD output signal. "L" when ON.
37	DISH F	O	Mechanism 3 disc table drive control output to IC203. "H" during forward rotation.
38	DISH R	O	Mechanism 3 disc table drive control output to IC203. "H" during reverse rotation.
39	OPEN	O	Mechanism tray drive control output to IC202. "H" during open.
40	CLOSE	O	Mechanism tray drive control output to IC202. "H" during open.
41	AUTO2	I	Mechanism reel table rotation detect signal input from DECK 2.
42	AUTO1	I	Mechanism reel table rotation detect signal input from DECK 1.
43	MUTE	O	Output signal to mute the signal output. "H" during muting.
44	LDON	O	Output signal which controls ON/OFF of CD pickup laser diode. "L" when ON.
45	SCOR	I	CD subcode sync SO + SI input.
46	I/O SER	I/O	Serial data input/output to and from RX.
47	REMOTE	I	Remote control unit received signal from RX.

Pin No.	Pin Name	I/O	Description
48	IC	-	Internal connection. (connected to GND)
49	O-SOL2	O	Mechanism solenoid drive control output to DECK 2. "L" when ON.
50	O-SOL1	O	Mechanism solenoid drive control output to DECK 1. "L" when ON.
51	O-MOTOR	O	Mechanism main motor drive control output to DECKs. "L" when ON.
52	VDD	-	Power supply terminal. (+5V)
53	FSW3	O	Function selector control output. (video select)
54	FSW2	O	Function selector control output. (REC MUTE)
55	FSW1	O	Function selector control output. (function B)
56~70	P1~15	O	Segment output for FL display.
71	VLOAD	-	-27V power supply for FL pull down.
72~77	P16~21	O	Segment output for FL display.
78	FSW0	O	Function selector control output. (function A)
79	GMUTE	O	Output signal to mute graphic of CDG. "H" during muting. (Not used.)
80	1G	O	Digit output for FL display.

IC, SM5875BM

Pin No.	Pin Name	I/O	Description
1	MUTE	I	When MODE is "H": Soft mute ON/OFF control. Mute is active when "H". When MODE is "L": Attenuator level direction control. The attenuator direction is down when "H".
2	DEEM	I	De-emphasis ON/HIGH. ("H"=De-emphasis)
3	CKO	O	Crystal oscillator output. (Not used)
4	DVSS	-	Digital VSS.
5	BCKI	I	Bit clock input.
6	DI	I	Serial data input.
7	DVDD	-	Digital VDD.
8	LRCK	I	Input sample data rate clock input. "H" = Lch, "L" = Rch.
9	TSTN	I	LSI test input. ("L"=TEST)
10	TO1	O	Test output 1. Normally "L". (Not used)
11	AVDDL	-	Analog VDD.
12	LO	O	Left channel analog output.
13	AVSS	-	Analog VSS.
14	RO	O	Right channel analog output.
15	AVDDR	-	Analog VDD.
16	TO2	O	Test output 2. Normally "L". (Not used)
17	XVDD	-	Crystal VDD. (+5V)
18	XTI	I	External clock input. (16.9344MHz)
19	XTO	O	Crystal oscillator output.
20	XVSS	-	Crystal VSS.
21	DS	I	Double-speed mode when "H". (Connected to +5V)
22	RSTN	I	Reset when "L".
23	MODE	I	Soft mute/attenuator mode select. Soft mute mode when "H".
24	ATCK	I	Attenuator level setting clock. Disabled when MODE is "H".

## IC,CXD1167Q

Pin No.	Pin Name	I/O	Description
1	FSW	O	Time constant switching output for the spindle motor output filter.
2	MON	O	ON/OFF control output for the spindle motor.
3	MDP	O	Spindle motor drive output. Coarse control=CLV-S mode, speed control=CLV-P mode.
4	MDS	O	Spindle motor drive output, speed control in the CLV-S mode.
5	EFM	I	EFM signal input from the RF amplifier.
6	ASY	O	Output to control the slice level of the EFM signal.
7	LOCK	O	When GFS sampled by WFCK/16, H=output. When "L" serially output 8 times, L=output.
8	VCOO	O	VCO output. $f=8.6436\text{MHz}$ when it is locked to the EFM signal.
9	VCOI	I	VCO input.
10	TEST	-	Connected to Ground.
11	PDO	O	Phase comparison output between the EFM and VCO/2 signals.
12	VSS	I	Ground.
13	CLK	I	Serial data transmission clock input from CPU.
14	XLT	I	Latch input from CPU. Latches 8-bit shift register data to each register.
15	DATA	I	Input serial data from CPU.
16	XRST	I	System reset input. "L"=reset.
17	CNIN	I	Tracking pulse input.
18	SENS	O	Internal state is output corresponding to the address.
19	MUTG	I	Muting input. When ATTM="L", MTUG="L" and normal. When "H", no sound signal.
20	CRCF	O	Result of the CRC check of sub code Q is output. (Not used)
21	EXCK	I	Clock input for sub code serial output.
22	SBSO	O	Sub code serial output.
23	SUBQ	O	Sub code Q output.
24	SCOR	O	Sub code sync SO + SI output.
25	SQCK	I/O	Sub code Q read clock.
26	SQEK	I	SQCK selection input. (Connected to +5V)
27	DOTX	O	Digital audio interface output. (WFCK is output when OFF)
28	GFS	O	Display output of the lock state of the frame sync. "H" = lock.
29~32	TEST	I/O	External RAM data terminal, DATA 8~5. (Connected to Ground)
33	VDD	O	Power supply. (+5V)
34~37	TEST	I/O	External RAM data terminal, DATA 4~1. (Connected to Ground)
38~48	TEST	O	External RAM address output, ADDR 01~11. (Connected to Ground)
49	TEST	O	Write enable signal output to the external RAM, active when "L". (Connected to Ground)
50	TEST	O	Chip select signal output to the external RAM, active when "L". (Connected to Ground)
51	C4M	O	1/2 frequency division output to the x'tal. $f=4.2336\text{MHz}$ . (Not used)
52	VSS	-	Ground.
53	XTAI	I	X'tal oscillation circuit input. $f=8.4672\text{MHz}$ .
54	XTAO	O	X'tal oscillation circuit output. $f=8.4672\text{MHz}$ . (Not used)
55	MD1	I	Mode selection input 1. It is used when "L"
56	MD2		Mode selection input 2. It is used when "L"
57	MD3		Mode selection input 3. It is used when "H"

Clock frequency 8.4672MHz,  
digital out OFF, digital  
filter ON.

Pin No.	Pin Name	I/O	Description
58	SLOB	I	Code switching input of the audio output. "L" = 2's complement output, "H" = offset binary output. (Connected to GND)
59	PSSL	I	Mode switching input of the audio data output. "L" = serial output, "H" = parallel output (Connected to GND)
60	APTR	O	Apperture compensation control output. Filter ON = 88.2kHz, filter OFF = 44.1kHz. (Not used)
61	APTL	O	Apperture compensation control output. Filter ON = 88.2kHz, filter OFF = 44.1kHz. (Not used)
62	C1F1	O	DA01 (LSB of the parallel audio data) output when PSSL = "H", C1F1 output when PSSL = "L". (Not used)
63	C1F2	O	DA02 output when PSSL = "H", C1F2 output when PSSL = "L". (Not used)
64	C2F1	O	DA03 output when PSSL = "H", C2F1 output when PSSL = "L". (Not used)
65	C2F2	O	DA04 output when PSSL = "H", C2F2 output when PSSL = "L". (Not used)
66	C2FL	O	DA05 output when PSSL = "H", C2FL output when PSSL = "L". (Not used)
67	C2P0	O	DA06 output when PSSL = "H", C2P0 output when PSSL = "L". (Not used)
68	RFCK	O	DA07 output when PSSL = "H", RFCK output when PSSL = "L". (Not used)
69	WFCK	O	DA08 output when PSSL = "H", WFCK output when PSSL = "L".
70	PLCK	O	DA09 output when PSSL = "H", PLCK output when PSSL = "L". (Note 1) (Not used)
71	VGFS	O	DA10 output when PSSL = "H", VGFS output when PSSL = "L". (Not used)
72	GTOP	O	DA11 output when PSSL = "H", GTOP output when PSSL = "L". (Not used)
73	VDD	-	Power supply. (+5V)
74	RA0V	O	DA12 output when PSSL = "H", RFCK output when PSSL = "L". (Not used)
75	C4LR	O	DA13 output when PSSL = "H", RFCK output when PSSL = "L". (Not used)
76	C210	O	DA14 output when PSSL = "H", RFCK output when PSSL = "L". (Not used)
77	C210	O	DA15 output when PSSL = "H", RFCK output when PSSL = "L". (Note 2) (Not used)
78	DATA	O	DA16 (MSB of the parallel audio data) output when PSSL = "H", RFCK output when PSSL = "L". (Note 3) (Not used)
79	WDCK	O	Strobe signal putput. 176.4kHz when filter ON, 88.2kHz when filter OFF. (Not used)
80	LRCK	O	Strobe signal putput. 188.2kHz when filter ON, 44.1kHz when filter OFF.

Note 1 : PLCK : VCO/2 output.  $f=4.3218\text{MHz}$  when EFM signal is locked.

Note 2 : C210 : Bit clock output.  $f=2.1168\text{MHz}$

Note 3 : DATA: Serial data output of the audio signal.

## IC, CXA1081M

Pin No.	Pin Name	I/O	Description
1	RFI	I	RF summing amplifier output is input combined with C.
2	RFO	O	RF summing amplifier output, EYE pattern test point.
3	RF $\ominus$	I	RF summing inversion input.
4	P/N	I	Input is switched with the polarity of the laser diode. (Not used)
5	LD	I	Control output of the laser diode output.
6	PD	I	Photo detector for detecting the laser diode output is connected.
7	PD1	I	RF I-V amplifier (1) inversion input.
8	PD2	I	RF I-V amplifier (2) inversion input.
9	VC	I	Reference voltage input of the internal IC.
10	F	I	F I-V amplifier inversion input.
11	E	I	E I-V amplifier inversion input.
12	EO	O	E I-V amplifier output.
13	EI	I	E I-V amplifier gain adjustment terminal.
14	VR	O	Intermediate potential is output.
15	CC2	O	Defect bottom hold (1) capacitor connection terminal.
16	CC1	I	Defect bottom hold (1) capacitor connection terminal.
17	VEE	-	GND in the single power mode. Negative power in the $\pm 2$ power mode.
18	FE BIAS	I	Positive phase bias input of the focus error amplifier.
19	FE	O	Focus error amplifier output.
20	TE	O	Tracking error amplifier output.
21	DEFECT	O	Defect detection output. Mirror defect detection signal is output.
22	MIRR	O	Mirror comparator output.
23	CP	O	Mirror hold capacitor connection terminal.
24	CB	O	Defect bottom hold (2) capacitor connection terminal.
25	D GND	-	Digital GND.
26	ASY	I	Auto symmetry control input.
27	EFM	O	EFM output comparator output.
28	FOK	O	Focus OK output.
29	LD ON	I	Laser diode ON/OFF control input.
30	VCC	-	Positive power supply. (+5V)



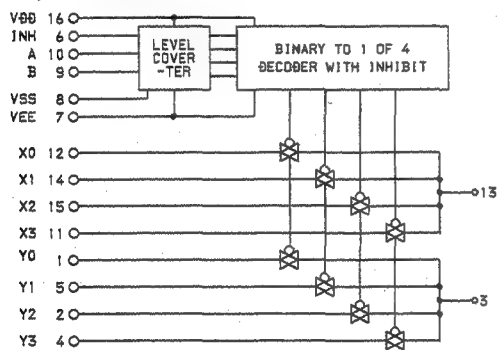
## IC, CXA1082BQ

Pin No.	Pin Name	I/O	Description
1	VC	-	Connected to VREF.
2	FGD	O	When the high frequency gain of the focus servo is lowered, a capacitor is connected between this terminal and pin 3.
3	FS3	I	The high frequency gain of the focus servo is switched with ON/OFF of FS3.
4	FLB	O	Time constant external terminal for raising the low-frequency range of the focus servo.
5	FEO	O	Focus error signal output terminal.
6	FE $\ominus$	I	Focus amplifier inversion input terminal.
7	SRCH	O	Time constant exterminator terminal to generate the focus search waveform.
8	TG0	O	Time constant external terminal for switching the tracking high-frequency gain.
9	TG2	O	Time constant external terminal for switching the tracking high-frequency gain.
10	AVCC	-	Power supply terminal. (+5V)
11	TAO	O	Tracking error signal output terminal.
12	TA $\ominus$	I	Tracking amplifier inversion input terminal.
13	SL $\oplus$	I	Non-inversion input terminal of the sled amplifier.
14	SLO	O	Output terminal of the sled amplifier.
15	SL $\ominus$	I	Inversion input terminal of the sled amplifier.
16	SSTOP	I	ON/OFF detection signal terminal of limit switch detects the inner-most circumference.
17	FSET	I	Setting terminal of the phase compensation peak of the focus tracking and CLV LPF.
18	SENS	O	IC internal state is output corresponding to the address.
19	AVEE	-	Power supply terminal.
20	C. OUT	O	Count signal output of the tracking in the high-speed access mode.
21	DIRECT	O	It is used when the one-track jump. It is normally set to "H". A direction of the tracking jump pulse is inverted when "L". It is set in a time to "L" at the start and fall of TZC. (Not used)
22	XRST	O	All the internal register are cleared when "L".
23	DATA	I	Serial data transmission from the CPU.
24	XLT	O	Data of the internal serial shift register is transmitted to each latch memory which the address is decoded when "L".
25	CLK	O	Data transmission clock. Data is read at the falling edge.
26	DGND	-	Ground.
27	BW	I	Time constant external terminal of the loop filter.
28	PD1	I	Input terminal of data PD0 output from phase comparator CXD1167Q.
29	ISSET	I	The current which set the height of focus search, tracking jump and sled kick is supplied.
30	VCOF	I	The free running frequency of VCO corresponds to the resist value between pin 30 and pin 31.
31	3.5V	O	
32	C864	O	8.64MHz VCO output terminal.
33	LOCK	I	Connected to the LOCK terminal of CXD1167Q.
34	MDP	I	Terminal to connect the MDP terminal of CXD1167Q.
35	MON	I	Terminal to connect the MON terminal of CXD1167Q.
36	FSW	I	LPF time constant external terminal of the CLV servo difference signal.
37	DVCC	-	Power supply terminal. (+5V)

Pin No.	Pin Name	I/O	Description
38	SPDL $\ominus$	I	Inversion terminal of the spindle drive amplifier.
39	SPDLO	O	Spindle motor drive terminal.
40	WDCK	I	Word clock signal input terminal.
41	FOK	I	Focus OK signal input terminal.
42	MIRR	I	Mirror signal input terminal.
43	DVEE	-	Ground.
44	DFCT	I	Focus servo and tracking servo are OFF while "H" is being inputting.
45	TE	I	Tracking servo signal input terminal.
46	TZC	I	Input terminal of the tracking zero-cross comparator.
47	ATSC	I	ATSC detection window comparator input terminal. Data input terminal to indicate that a mechanical shock is occurred.
48	FE	I	Focus error signal input terminal.

## IC BLOCK DIAGRAM

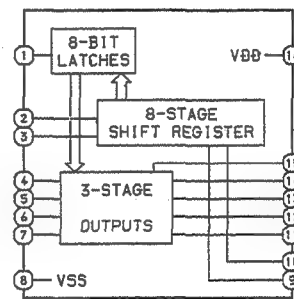
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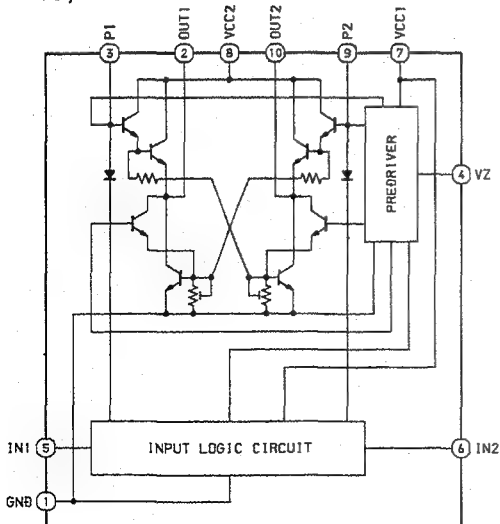
TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

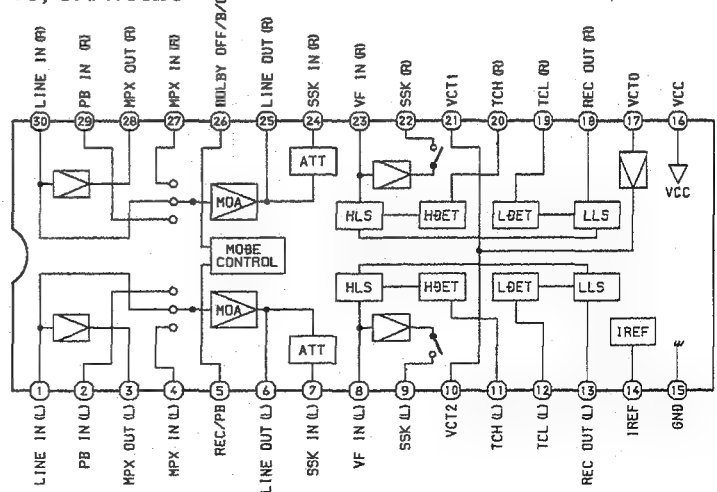
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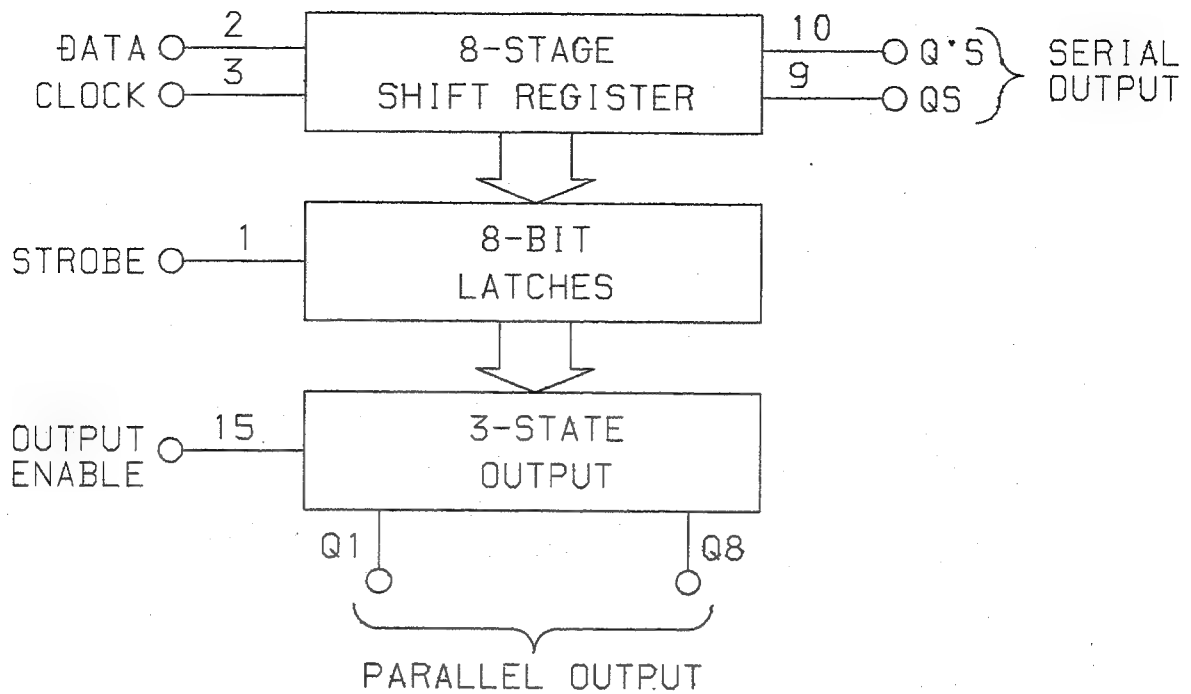


IC, LB1641



IC, CXA1332S





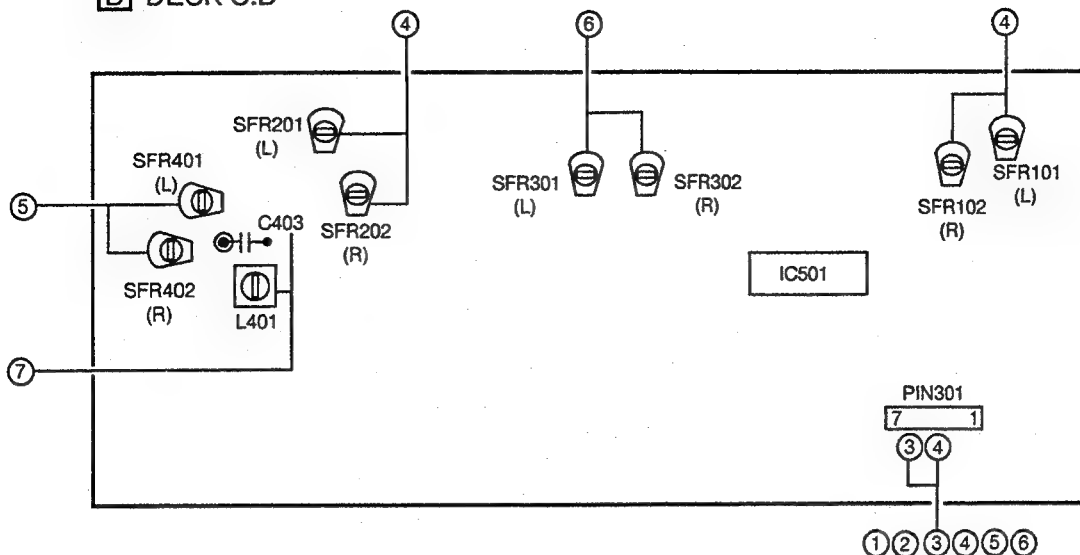
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUT		SERIAL OUTPUT	
				Q1	Qn	Qs	Q's
$\text{F}$	L	X	X	Z	Z	Q7	No chg.
$\text{F}$	L	X	X	Z	Z	No chg.	Qs
$\text{F}$	H	L	X	No chg.	No chg.	Q7	No chg.
$\text{F}$	H	H	L	L	Qn-1	Q7	No chg.
$\text{F}$	H	H	H	H	Qn-1	Q7	No chg.
$\text{F}$	H	X	X	No chg.	No chg.	No chg.	Qs

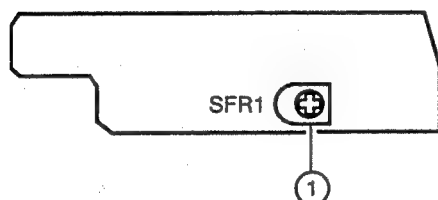
Z= High Impedance  
X= Don't Care

## ADJUSTMENT<DECK SECTION>

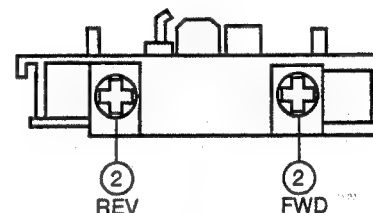
### B DECK C.B



### D DECK-2 C.B



### DECK-1 P, DECK-2 R/P/E HEAD



## < TAPE SECTION >

### 1. Tape Speed Adjustment

- Settings : •Test tape : TTA-100  
 •Test point : TP CONN 7P (PIN301) ③,④  
 •Adjustment location : SFR1

Method : Play back the test tape by DECK 2 and adjust SFR1 so that the frequency counter reads 3000Hz  $\pm$  40Hz.

### 2. Head Azimuth Adjustment

- Settings : •Test tape : TTA-310  
 •Test point : TP CONN 7P (PIN301) ③,④  
 •Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

### 3. PB Frequency Response Check (DECK1,DECK2)

- Settings : •Test tape : TTA-300  
 •Test point : TP CONN 7P (PIN301) ③,④

Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal is with respect to that of the 315Hz signal is  $\pm$  2dB.

### 4. PB Sensitivity Adjustment

- Settings : •Test tape : TTA-200  
 •Test point : TP CONN 7P (PIN301) ③,④  
 •Adjustment location : SFR101 (DECK1, Lch)  
 SFR102 (DECK1, Rch)  
 SFR201 (DECK2, Lch)  
 SFR202 (DECK2, Rch)

Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 390mV.

### 5. REC/PB Frequency Response Adjustment

- Settings : •Test tape : TTA-601  
 •Test point : TP CONN 7P (PIN301) ③,④  
 •Input signal : 1kHz/10kHz (LINE IN)  
 •Adjustment location : SFR451 (Lch)  
 SFR452 (Rch)

Method : Apply 1kHz signal and REC mode. Then adjust OSC attenuator so that the level at the TP CONN 7P (PIN301) ③,④ is 280mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of 10kHz signal is + 0.5dB  $\pm$  0.5dB with respect to that of the 1kHz signal.

### 6. REC/PB Sensitivity Adjustment

- Settings : •Test tape : TTA-601  
 •Test point : TP CONN 7P (PIN301) ③,④  
 •Input signal : 400Hz (LINE IN)  
 •Adjustment location : SFR301 (Lch)  
 SFR302 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the level at the TP CONN 7P (PIN301) ③,④ is 39mV. Record and play back the 1kHz and adjust SFRs so that the output is 39mV+0.5dB

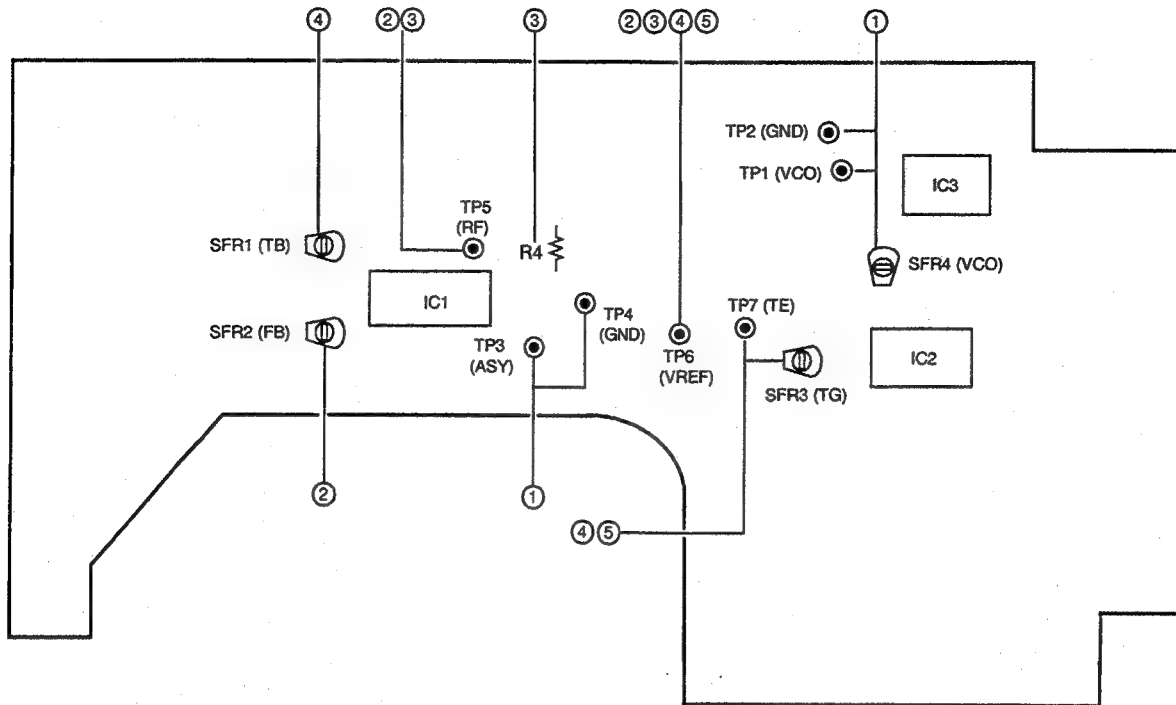
### 7. Bias OSC Frequency Adjustment

- Setting : •Test tape : TTA-601  
 •Test point : TP Bias (C403)  
 •Adjustment location : L401

Method: Set to the REC mode, adjust L401 so that the frequency counter of the test point reads 106kHz  $\pm$  2kHz.

## ADJUSTMENT<CD SECTION>

### A CD C.B



#### Note :

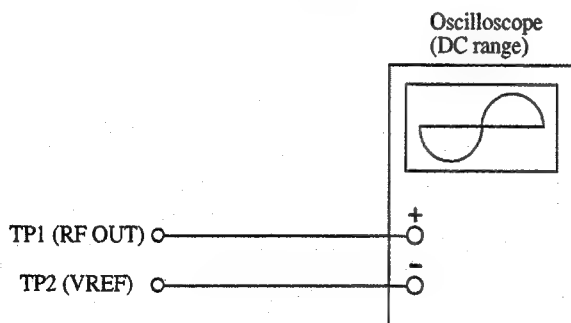
Connect a probe (10:1) of the osilloscope or the frequency counter to a test point.

#### 1. VCO Frequency Adjustment

- 1) Connect the frequency counter to the test points TP1 (VCO) and TP2 (VCO GND)
- 2) Set the test disc and PLAY mode.
- 3) Connect and short between TP3 (ASY) and TP4 (GND)
- 4) Adjust SFR4 so that the frequency counter reading is  $4.27\text{MHz} \pm 0.02\text{MHz}$ .
- 5) After the adjustment is completed, disconnect the short lead wire.

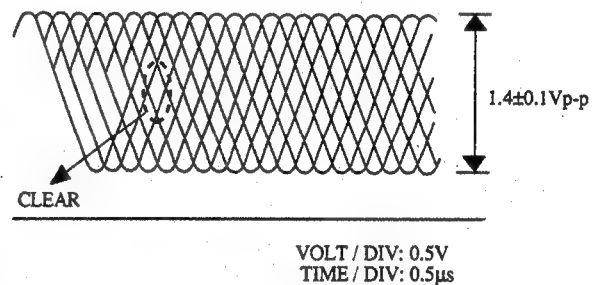
#### 2. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.



- 1) Connect an oscilloscope to the test points TP1 (RF OUT) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR2 so that RF signal of the test point TP1 (RF OUT) is MAX and CLEARREST.

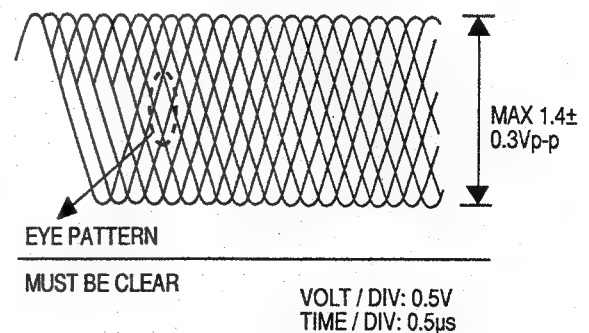
#### RF signal waveform



#### 3. RF Waveform Check

This check should be performed whenever the optical block is replaced in repair.

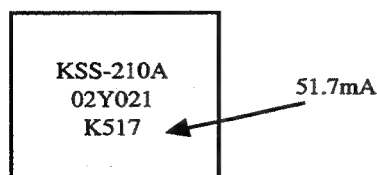
- 1) Connect an oscilloscope to the test points TP5 (RF) and TP6 (VREF).
- 2) Turn on the power switch.
- 3) Insert the test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Check that the waveform appears as shown in the figure below.





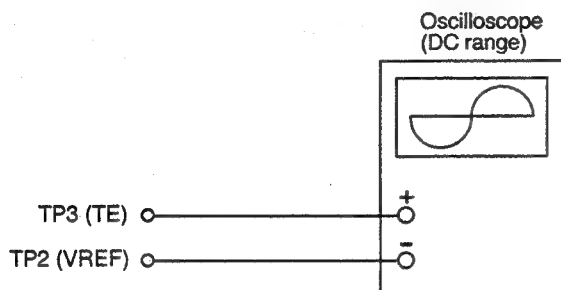
Note:

The current of the laser signal can be checked with the voltage on both sides of R23 (10Ω). The difference for the specified value shown on the level must be within ± 6.0mA

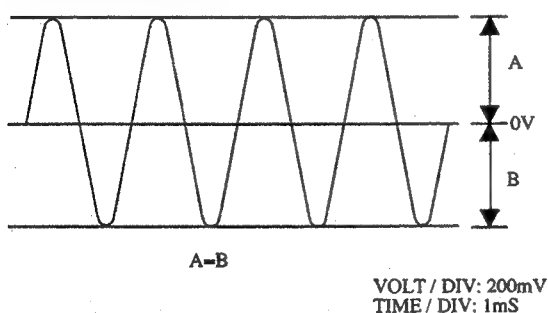


$$\text{Laser current } I_{op} = \frac{\text{Voltage across R23}}{10\Omega}$$

#### 4. Tracking Balance Adjustment



- 1) Connect an oscilloscope to the test points TP7 (TE) and TP6 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and press the PLAY button.
- 4) Connect the intermediate point of SFR3 to TP6 (VREF)
- 5) Adjust SFR1 (TB) so that the waveform on the oscilloscope is vertically symmetrical as figure shown in the figure below.
- 6) After the adjustment is completed, remove the connected lead wires from the terminals.



#### 5. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment. Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise increases when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When gain adjustment is off, the symptoms below appear.

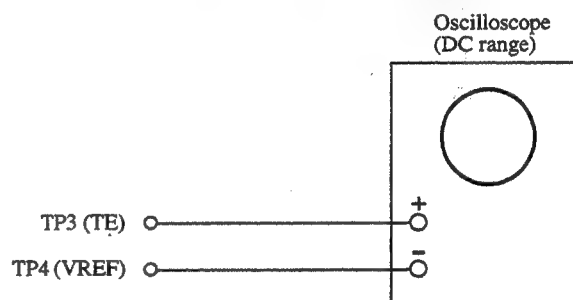
Symptoms \ Gain	(Focus)	Tracking
•The time until music starts becomes longer for STOP PLAY or automatic selection (◀ ▶ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
•Music does not start and disc continues to rotate for STOP PLAY or automatic selection (◀ ▶ buttons pressed.)	—	low
•Disc stops to rotate shortly after STOP →PLAY.	low or high	—
•Sound is interrupted during PLAY, or time counter display stops.	—	low
•More noises during the 2-axis device operation.	high	high

The following is simple adjustment method.

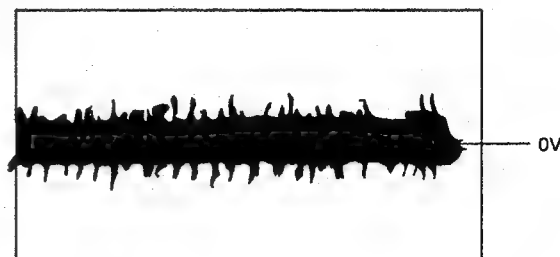
= Simple adjustment =

Note: Since exact adjustment cannot be performed, remember the positions of the controls before the performing the adjustment.

If the positions after the simple adjustment are only a little different, return the controls to the original position.



- 1) Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
- 2) Insert test disc TCD-782 and play back the second composition.
- 3) Connect an oscilloscope to TP3 (TE) and TP4 (GND).
- 4) Adjust SFR3 so that the waveform appears as shown in the figure below.(tracking gain adjustment)

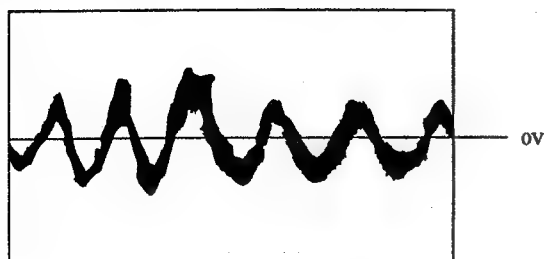


VOLT / DIV: 50mV  
TIME / DIV: 1mS

• Incorrect example

Low tracking gain

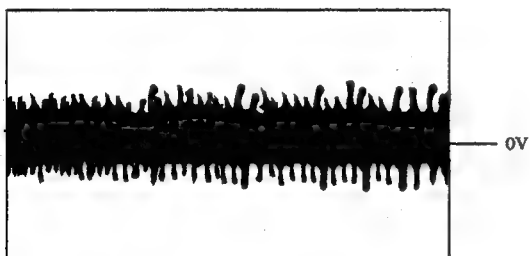
(The fundamental wave appears as compared with the waveform adjusted)



VOLT / DIV: 50mV  
TIME / DIV: 1mS

High tracking gain

(The frequency of the fundamental wave is higher than in low gain)



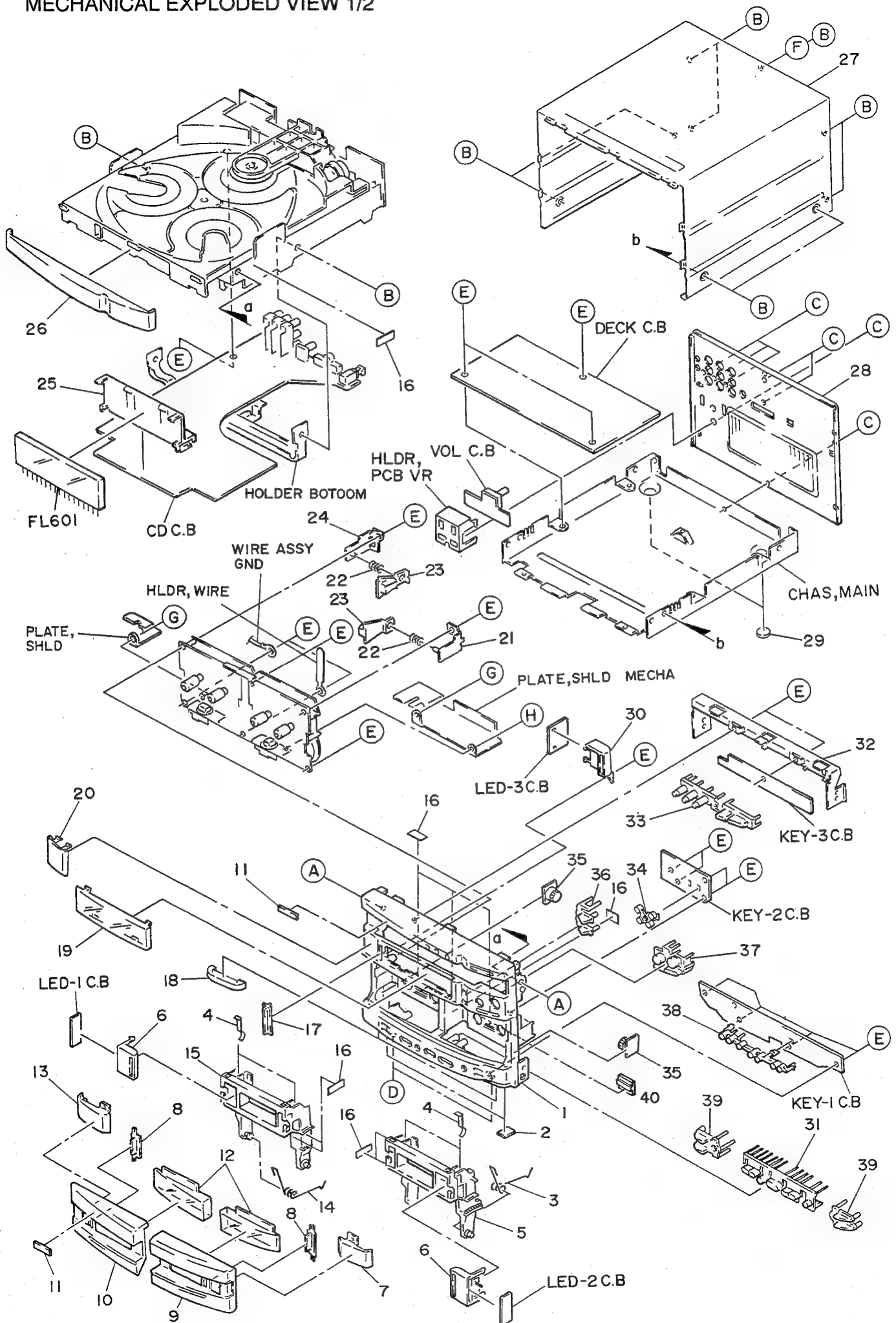
VOLT / DIV: 50mV  
TIME / DIV: 1mS

## PRACTICAL SERVICE FIGURE

### <DECK SECTION>

Tape speed :	3000Hz $\pm$ 1.5%
Wow & flutter :	Less than 0.4% (R.M.S)
Take-up torque :	45g-cm - 5g-cm (FWD, REV)
F.F torque :	100g-cm +50/-25 g-cm
REW torque :	100g-cm +50/-25 g-cm
Back tension :	3g-cm $\pm$ 4g-cm (FWD, REV)
PB Output level :	220mV $\pm$ 50mV
REC/PB Output level :	130mV $\pm$ 2dB (SP OUT)
Distortion (REC/PB) :	Less than 2.5% (METAL)
Noise level (PB) :	Less than 1.0mV (DOLBY B/C ON, CRO2) Less than 1.3mV (DOLBY B/C OFF, NORM)
Noise level (REC/PB) :	Less than 1.2mV (DOLBY B/C ON, CRO2, METAL) Less than 1.3mV (DOLBY B/C , NORM)
Erasing ratio :	More than 60dB
Test tape :	NORMAL TTA-601/600 CrO2 TTA-610 METAL TTA-630

# MECHANICAL EXPLODED VIEW 1/2

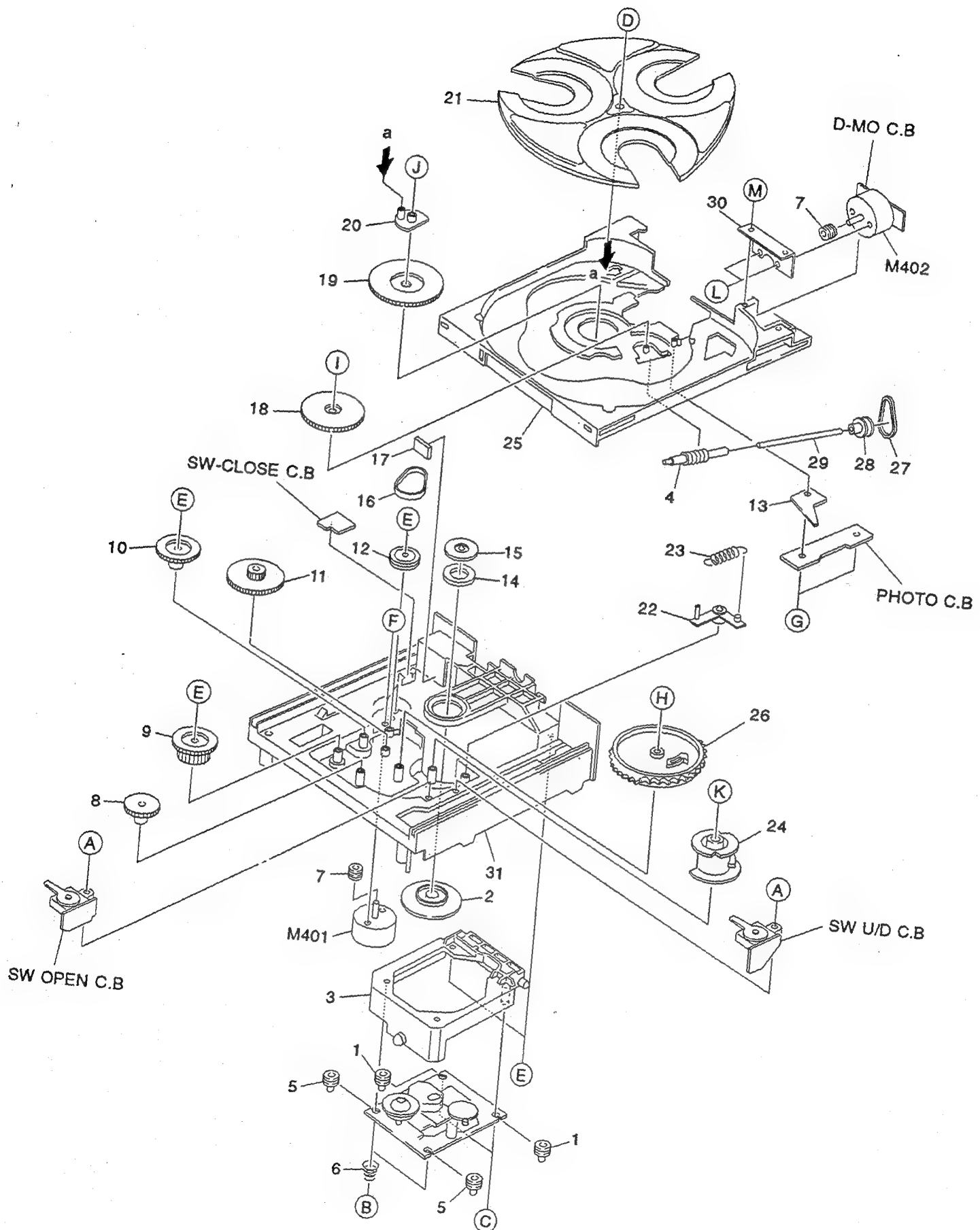


# MECHANICAL PARTS LIST 1/2

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NV1-001-019		CAB,FR<YJ,YL,Y>	28	85-NV1-013-019		PANEL,REAR YLBN<YL>
1	85-NV1-002-019		CAB,FR(U)<YU>	28	85-NV1-010-019		PANEL,REAR YUBN<YU>
2	80-VT1-202-019		FELT,12.5-15.5-2	29	82-NV1-213-019		FELT,DIA12-2
3	82-NV1-217-119		SPR-T,EJECT R (SIN)	30	82-NV1-205-019		GUIDE,LED WIND
4	80-CD3-218-110		SPR-P CASS	31	82-NV1-010-019		KEY,DECK
5	82-NV1-004-119		BOX,CASS R	32	82-NV1-201-019		HLDR,FR
6	82-NV1-204-019		GUIDE,LED CASS	33	82-NV1-008-019		KEY,OPEN
7	82-NV1-024-019		DUMMY,CASS R	34	82-NV1-202-019		GUIDE,LED CD
8	82-NV1-019-019		IND,CASS	35	87-063-165-019		OIL-DMPR 150
9	85-NV1-004-019		PANEL,CASS R	36	85-NV1-006-019		KEY,DISPLAY
10	85-NV1-003-019		PANEL,CASS L	37	82-NV1-009-01K		KEY,CD
11	81-MX4-032-019		BADGE,AIWA N	38	82-NV1-203-019		GUIDE,LED DECK
12	83-NV1-008-019		WINDOW,CASS	39	85-NV1-007-019		KEY,DUBB
13	82-NV1-023-019		DUMMY,CASS L	40	87-020-109-010		LED,SLF-201C
14	82-NV1-216-119		SPR-T,EJECT L (SIN)	A	87-721-096-419		QT2+3-10
15	82-NV1-003-119		BOX,CASS L	B	87-067-641-019		UTT2+3-8 W/O SLOT BLK
16	80-MQ1-209-019		CLOTH,20-7	C	87-067-660-019		BVT2+3-8W/O SLOT BLK
17	82-NV1-018-019		IND,CD	D	87-067-689-019		BVTT+3-8
18	82-NT1-036-019		RING,FOOT	E	87-067-579-019		BVT 2+3-8 W/O SLOT
19	82-NV1-016-019		WINDOW,CD	F	87-067-058-019		FW,3.2-8-0.5
20	82-NV1-022-019		DUMMY,CD	G	87-571-032-419		VIT+2-3
21	82-NF5-227-019		HLDR,LOCK 2N	H	87-067-178-019		VTT+2.6-3
22	82-NF5-228-019		SPR-C,LOCK				
23	82-NF5-229-019		PLATE,LOCK				
24	82-NF5-226-019		HLDR,LOCK 1N				
25	81-VM1-203-019		GUIDE,FL				
26	85-NV1-005-019		PANEL,TRAY				
27	82-NV1-002-119		CAB,STEEL				
28	85-NV1-009-019		PANEL,REAR YBN<Y>				
28	85-NV1-008-019		PANEL,REAR YJBN<YJ>				

# MECHANICAL EXPLODED VIEW 2/2



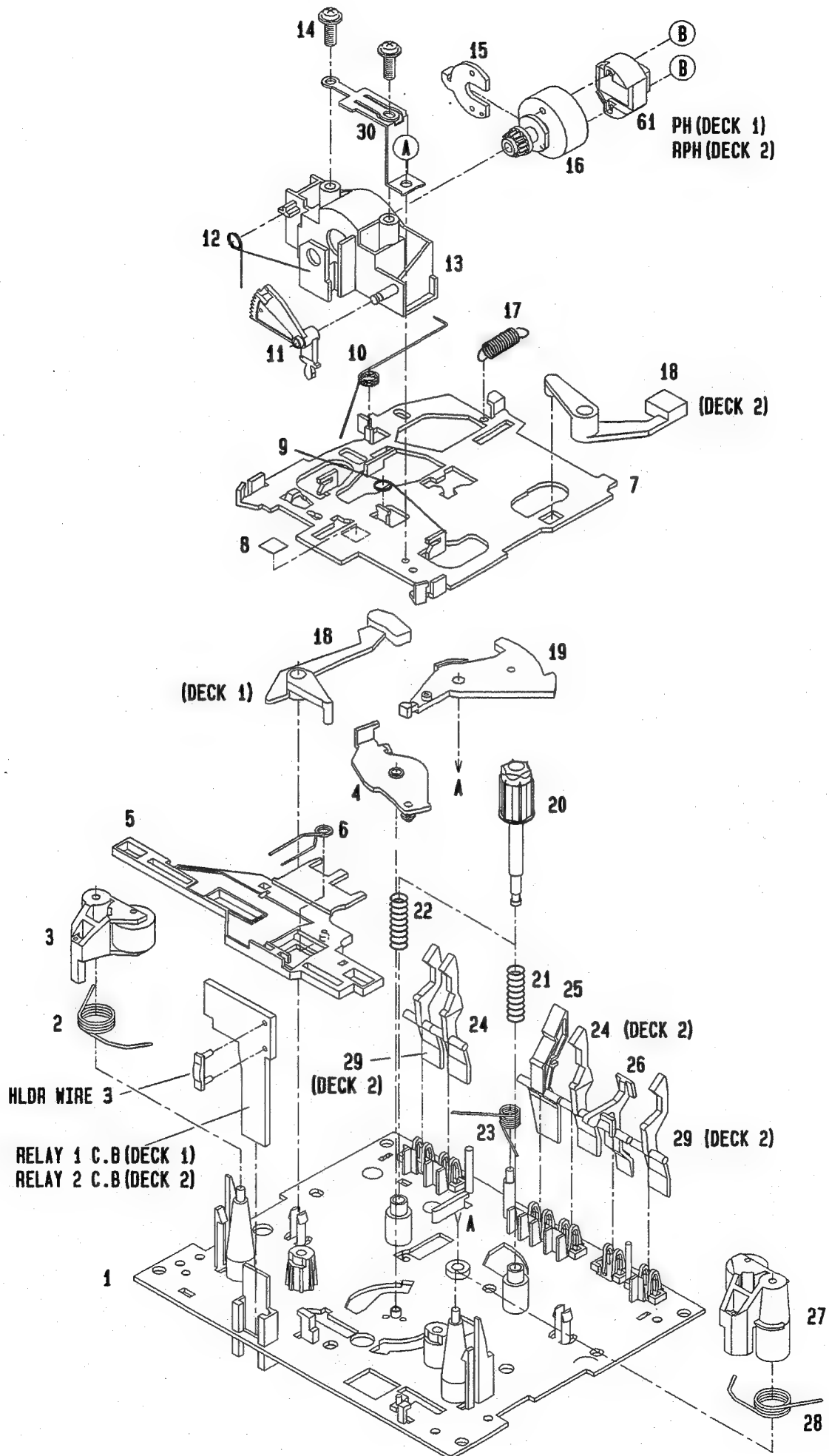


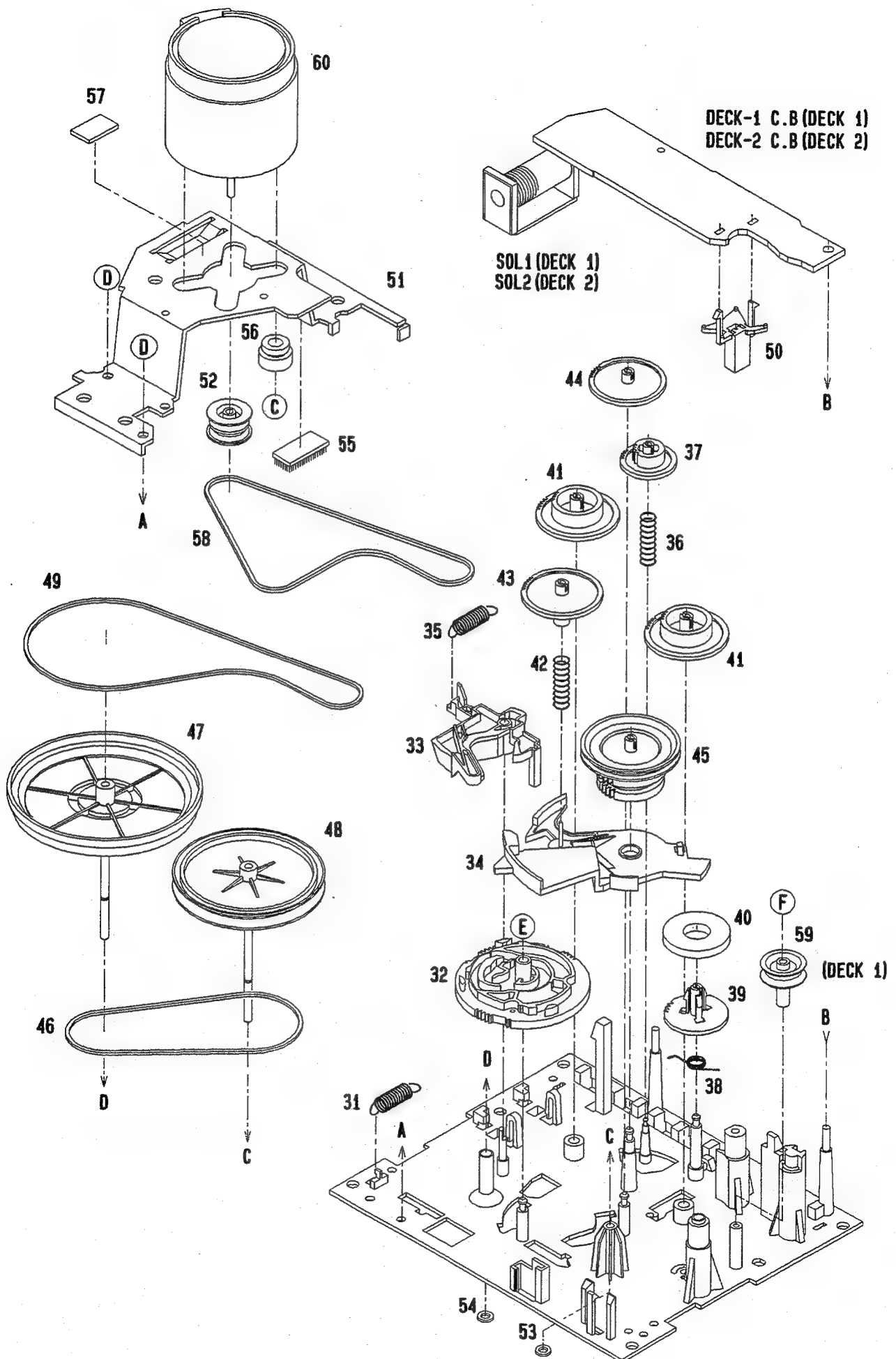
# MECHANICAL PARTS LIST 2/2

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
1	80-CD3-214-019		CUSH CD A	26	81-ZG1-015-01K		GEAR,TRAY CAM BLU
2	81-ZG1-228-21K		HLDR,MAGNET	27	81-ZG1-233-110		BELT,TT
3	81-ZG1-253-519		HLDR,MECH MK2	28	81-ZG1-236-01K		PULLY,TT MO
4	81-ZG1-276-11K		WORM GEAR,TT NO2	29	81-ZG1-260-019		SHAFT,WORM S
5	81-ZG1-230-010		G-CUSH,MECH	30	81-ZG1-215-11K		HLDR,MOTOR
6	81-ZG1-231-110		SPR-C,MECH	31	81-ZG1-267-219		CHAS,MECH M(NO3)
7	81-ZG1-212-01K		PULLY,LOAD MO	A	81-653-215-019		SPECIAL SCREW VT2
8	81-ZG1-250-019		GEAR TRAY RELAY MK2	B	81-ZG1-254-019		S-SCEW,MECH HLDR
9	81-ZG1-019-019		GEAR TRAY B YEL	C	81-ZG1-271-019		S-SCREW,MECH REAR
10	81-ZG1-018-019		GEAR TRAY A YEL	D	81-ZG1-239-019		S-SCREW,TT
11	81-ZG1-017-019		GEAR RELAY RED	E	87-067-945-119		VFT2+3-12(F10)
12	81-ZG1-014-01K		PULLY,RELAY YEL	F	87-251-071-419		U+2.6-4
13	81-ZG1-240-010		SPR-P,WORM	G	87-067-579-019		BVT 2+3-8 W/O SLOT
14	87-036-326-010		MAGNET,CLAMPER 93	H	81-ZG1-264-019		S-SCREW,CAM
15	81-ZG1-255-119		PLATE,MAGNET MK2	I	87-761-095-419		VFT2+3-8W/O SLOT GOLD
16	81-ZG1-232-010		BELT,TRAY	J	87-078-029-019		VFT2+3-13(F8)
17	81-ZG1-238-119		CUSH,TRAY IN	K	87-078-061-019		VFT2+3-20DIA10,GLD
18	81-ZG1-222-01K		WORM WHEEL,TT	L	87-251-070-419		U+2.6-3
19	81-ZG1-202-01K		GEAR,MAIN	M	87-721-097-419		QT2+3-12 GLD
20	81-ZG1-252-010		LEVER,TT MK2				
21	81-ZG1-010-219		TURNTABLE NO3				
22	81-ZG1-020-019		PLATE,CAM BGE				
23	81-ZG1-262-019		SPR-E CAM S				
24	81-ZG1-016-01K		GEAR,MECH CAM BGE				
25	81-ZG1-029-019		TRAY,NO2 MOT				

# TAPE MECHANISM EXPLODED VIEW 1/1



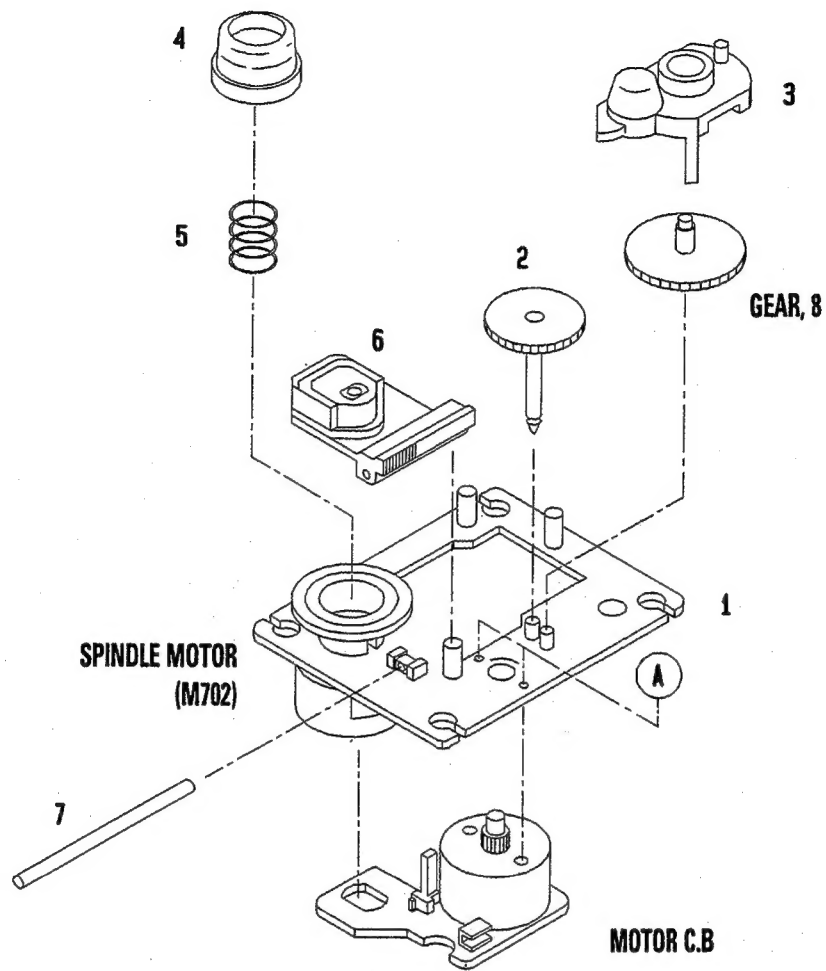


# TAPE MECHANISM PARTS LIST 1/1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-214-110		CHAS ASSY, P (DECK 1)	39	82-ZM1-220-210		GEAR, IDLER
1	82-ZM1-299-010		CHAS ASSY, R (DECK 2)	40	80-ZM6-217-010		RING MAGNET 2
2	82-ZM1-258-010		SPR-T, PINCH L	41	82-ZM1-216-210		GEAR, REEL
3	82-ZM1-248-110		LVR ASSY, PINCH L	42	82-ZM1-276-010		SPR-C, FR
4	82-ZM1-295-210		PLATE ASSY, LINK	43	82-ZM1-225-010		GEAR, FR
5	82-ZM1-266-010		LVR, DIR	44	82-ZM1-226-010		GEAR, REW
6	82-ZM1-214-010		SPR-T, DIR	45	82-ZM1-228-210		SLIP DISK ASSY
7	82-ZM1-206-210		CHAS, HEAD	46	82-ZM1-261-110		BELT, FR
8	87-078-014-010		SH, 5-5-0.05	47	82-ZM1-237-210		FLY-WHL ASSY, R (DECK 2)
9	82-ZM1-269-010		SPR-T, BRG	47	82-ZM3-209-110		FLY-WHL ASSY, R2 (DECK 1)
10	82-ZM1-219-010		SPR-T, LINK	48	82-ZM1-234-110		FLY-WHL ASSY, L (DECK 2)
11	82-ZM1-210-010		GEAR, H T	48	82-ZM3-207-210		FLY-WHL ASSY, L2 (DECK 1)
12	82-ZM1-213-010		SPR-T, HEAD	49	82-ZM3-206-010		BELT, R
13	82-ZM1-207-010		GUIDE, TAPE	50	82-ZM1-245-210		HLD, IC
14	82-ZM1-283-210		S-SCREW, AZIMUTH	51	82-ZM3-201-010		HLD, MC
15	82-ZM1-209-010		PLATE, HEAD	52	82-ZM3-202-010		PULLEY, MOT 2M
16	82-ZM1-208-010		HLD, HEAD	53	82-ZM1-288-010		SH, 1.63-3.2-0.5 SLT
17	82-ZM1-218-010		SPR-E, HB	54	80-ZM6-243-010		SH, 1.75-3.6-0.5 SLT
18	82-ZM1-263-110		LVR, EJECT L (DECK 1)	55	80-ZM6-230-010		SH, BELT
18	82-ZM1-264-010		LVR, EJECT R (DECK 2)	56	86-575-242-010		CUSH-G, DIA3.7-9-3.2
19	82-ZM1-222-010		LVR, PLAY	57	86-575-361-010		CUSH-G, 6-8-0.8
20	82-ZM1-217-110		REEL TABLE	58	82-ZM3-205-010		BELT, L
21	82-ZM1-244-110		SPR-C, BT	59	82-ZM3-204-010		PULLEY, COUPLER (DECK 1)
22	82-ZM1-285-110		SPR-C, BT L	60	87-045-347-010		MOT, SHU2L 70(M1)
23	82-ZM1-257-010		SPR-T, CAS	61	87-046-355-010		HEAD, PH HADKH2529B(PH)
24	82-ZM1-241-110		LVR, MC	61	87-046-356-010		HEAD, RPH HADKH5581B(RPH)
25	82-ZM1-242-010		LVR, CAS	A	87-585-036-410		UIT+2-8
26	82-ZM1-243-010		LVR, STOP	B	80-ZM6-207-010		V+1.6-7
27	82-ZM1-253-110		LVR ASSY, PINCH R	C	82-ZM1-309-010		S-SCRW, MOTOR
28	82-ZM1-259-010		SPR-T, PINCH R	D	87-067-178-010		VTT+2.6-3
29	82-ZM1-240-110		LVR, REC (DECK 2)	E	87-067-932-010		PW, 2.15-6.8-0.5 SLT
30	82-ZM1-298-010		SPR-P, EARTH	F	87-067-972-010		PW, 1.05-3-0.25 SLT
31	82-ZM1-255-110		SPR-E, LVR DIR				
32	82-ZM1-221-110		GEAR, CAM				
33	82-ZM1-227-110		LVR, TRIG				
34	82-ZM1-224-110		LVR, FR				
35	82-ZM1-305-010		SPR-E, TRIG 2				
36	82-ZM1-277-010		SPR-C, PLAY				
37	82-ZM1-223-010		GEAR, PLAY				
38	82-ZM1-256-110		SPR-T, FR				

# CD MECHANISM EXPLODED VIEW 1/1



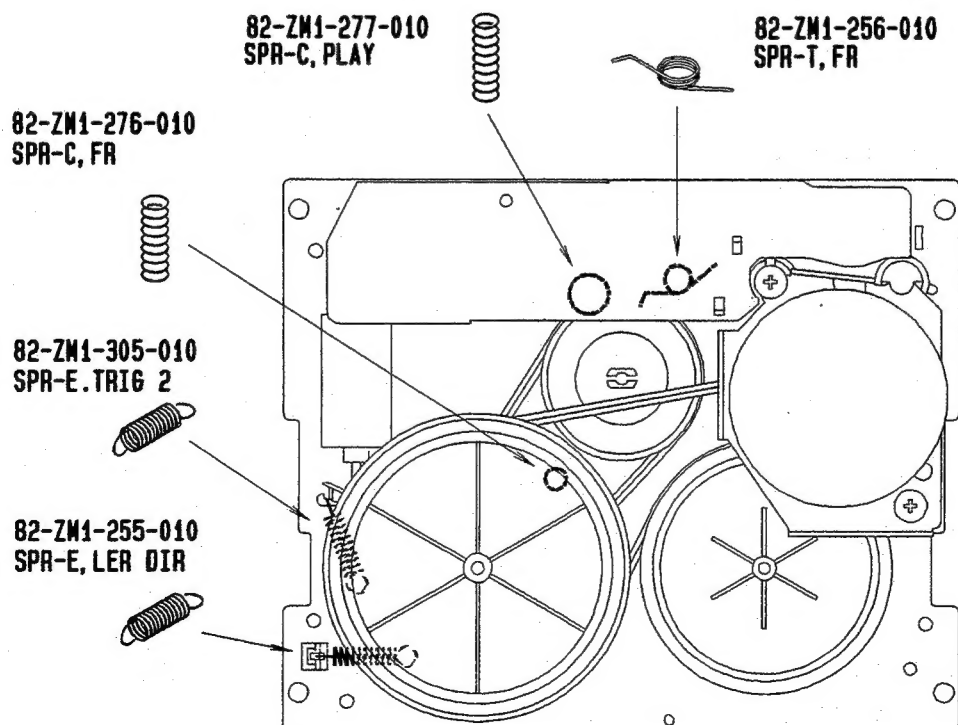
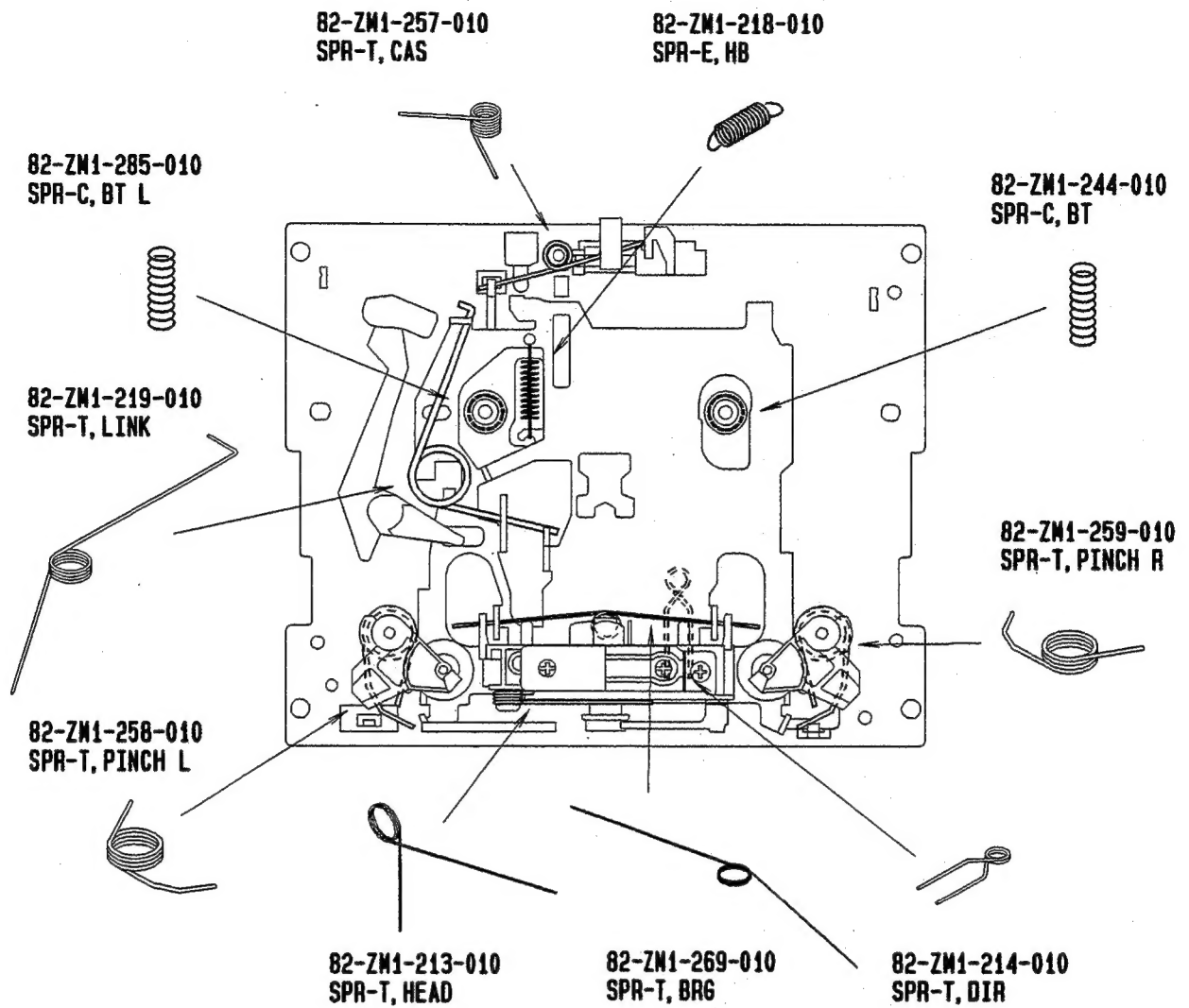
## CD MECHANISM PARTS LIST 1/1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	9X-262-513-310		T.T CHASS ASSY W/MOTOR
2	92-625-188-020		GEAR(A)
3	92-625-544-010		COVER
4	92-625-187-010		RING CENTER
5	92-625-191-010		SPRING COMPRESSION
6	98-848-127-110		OPTICAL PICK UP KSS-210A
7	94-917-565-010		SHAFT SLED
A	87-261-032-210		V+2-3



# SPRING APPLICATION POSITION



## SPEAKER PARTS LIST 1/1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NS1-011-019		GRILL FRAME ASSY
2	85-NS1-602-019		SPEAKER WOOFER<EXCEPT YL>
2	85-NS1-604-019		SPEAKER WOOFER H<YJ,YU>
3	83-NSD-608-019		SPEAKER TWEETER
4	85-NS1-001-019		PANEL FR
5	85-NS1-004-019		RING W
6	85-NS1-010-019		PANEL TW ASSY
7	83-096-614-019		SPEAKER CORD
8	82-NS2-610-019		TERMINAL ASSY
9	87-343-172-019		UT,+4-12
10	87-342-097-019		UT,+3-12

## ACCESSORIES/PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NT1-901-119		IB,EAC-S<HE,HK,HR>
1	85-NT1-902-119		IB,ESF-S<LH,U>
1	85-NT1-903-019		IB,EGI-S<EE,EZ,EEZ>
1	85-NT1-904-019		IB,ESF(E)-S<EE,EZ,EEZ,K>
2	85-NT1-019-019		RC-T502
3	87-006-225-019		AM LOOP ANT NC2
4	87-009-789-019		PLUG ADPTR IR44<HE,LH,HR>
5	85-043-115-01B		ANT,FEEDER FM<HE,LH,HR,HK,U>
6	87-043-106-019		FM, WIRE ANT (Z)<EE,EZ,EEZ,K>

# REFERENCE NAME LIST

## ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

## MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL